| Access | DB# | | |
|--------|-----|------|--|
| Accass | DD# | | |
| MCCESS | UDH | | |

SEARCH REQUEST FORM

Scientific and Technical Information Center

| Requester's Full Name: Jeff Art Unit: 1652 Phone | 10 E Rough Number 308 - 3775 | Examiner #: 62785 Date: 8-14/2002 Serial Number: 09/805/016 |
|---|---|--|
| Mail Box and Bidg/Room Location (71-9801) (71-9807) | n: | esults Format Preferred (circle): PAPER DISK E-MAIL |
| If more than one search is subr | nitted, please priori | tize searches in order of need. *********************************** |
| Please provide a detailed statement of the Include the elected species or structures, | e search topic, and describ keywords, synonyms, acr s that may have a special | be as specifically as possible the subject matter to be searched. ronyms, and registry numbers, and combine with the concept or meaning. Give examples or relevant citations, authors, etc, if |
| Title of Invention: $\bigvee_{Se} \sigma^{\Gamma} = G$ | -varillin and | a-Vanilla Hodox confunction |
| Inventors (please provide full names): | | |
| (F, | | |
| Earliest Priority Filing Date: 3 | -12-2001 | |
| | | m (parent, child, divisional, or issued patent numbers) along with the |
| appropriate serial number. | | |
| Please seered he | followns par | tal Etructure: |
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| | | the tetramethylchromen? |
| | | Thank you. |
| ******* | ****** | ********** |
| STAFF USE ONLY | Type of Search | Vendors and cost where applicable |
| Searcher: 12 /27/01-1 | NA Sequence (#) | STN |
| Searcher Phone #: 308 149 | | |
| Searcher Location: | Structure (#) | Questel/Orbit |
| Date Searcher Picked Up: | Bibliographic | Dr.Link |
| Date Completed: 8/16/03 | Litigation | Lexis/Nexis |
| Searcher Prep & Review Time: | Fulltext | Sequence Systems |
| Clerical Prep Time: | Patent Family | WWW/Internet |

Other (specify)__

PTO-1590 (8-01)

Online Time: ____

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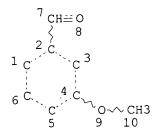
FILE COVERS 1907 - 16 Aug 2002 VOL 137 ISS 8 FILE LAST UPDATED: 15 Aug 2002 (20020815/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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=> d stat que 113 L1 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

| 4322 | SEA FILE=REGISTRY SSS FUL L1 |
|--------|--|
| | SEA FILE=REGISTRY ABB=ON PLU=ON INSULIN OR INTERFERON |
| 38890 | SEA FILE=REGISTRY ABB=ON PLU=ON COLLAGEN OR KERATIN OR |
| | IMMUNOGLOBULIN OR SOMATOTROP? |
| 600 | SEA FILE=REGISTRY ABB=ON PLU=ON ISOPROPANOL OR TROLOX OR |
| | TETRAMETHYLCHROMA? |
| 17384 | SEA FILE=HCAPLUS ABB=ON PLU=ON L2 |
| 22 | SEA FILE=HCAPLUS ABB=ON PLU=ON L6(L)(RADIOPROTEC? OR |
| | RADIATION) |
| 510833 | SEA FILE=HCAPLUS ABB=ON PLU=ON L3 OR L4 OR INSULIN OR |
| | 9157 38890 600 17384 22 |

INTERFERON OR COLLAGEN OR KERATIN OR IMMUNOGLOBULIN OR

64451 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ISOPROPANOL OR TROLOX L10 OR TETRAMETHYLCHROMA?

20 SEA FILE=HCAPLUS ABB=ON PLU=ON L9(L)L6 L11 L10(L)L6 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

44 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR L11 OR L12 L13

=> =>

=> d ibib abs hitrn 113 1-44

L13 ANSWER 1 OF 44 HCAPLUS COPYRIGHT 2002 ACS

2002:11108 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 136:69654

Preparation of diphenylethylene compounds as TITLE:

antidiabetic agents

Nag, Bishwagit; Dey, Debendranath; Medicherla, INVENTOR(S):

Satyanarayana; Neogi, Partha

PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 38 pp., Cont.-in-part of U.S. SOURCE:

Ser. No. 642,618.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. ______ US 2001-777551 20010205 US 2002002200 A1 20020103 US 2000-180340P P 20000204 PRIORITY APPLN. INFO.: US 2000-642618 A2 20000817

MARPAT 136:69654 OTHER SOURCE(S):

GI

$$R^{2}$$
 R^{3}
 R^{4}
 R^{5}
 R^{5}

Title compds. I [wherein A = CO2R, CONR'R", CN, or COR7; X = H, OH, or AΒ (un) substituted alkyl or alkenyl; R = H, (ar) alkyl, or aryl; R1, R2, R3, R4, R5, R6, and R7 = independently H, (un) substituted alkyl or alkenyl; CO2R, NR'R", or CONCR'R"; R' and R" = independently H, alkyl, aryl, OH, alkoxy, acylamino, acyloxy, alkanoyl, alkoxylcarbonyl, halo, NO2, SO2R'''; CZ3; Z = independently H, halo, (halo)alkyl, or SR''; R''' = H or alkyl; or R2 and R3 together or R5 and R6 together may be joined to form (m)ethylenedioxy; with provisos; and E and Z isomers thereof] were prepd. and shown to decrease circulating concns. of glucose when administered orally. For instance, 3,5-dimethoxybenzaldehyde was coupled with p-hydroxyphenyl acetic acid using TEA in acetic anhydride to give (E)-3-(3,5-dimethoxyphenyl)-2-(4-hydroxyphenyl) acrylic acid (II), which

exhibited glucose-lowering effects for more than 15 days at a dose of 20 mg/kg p.o. Examples also include twenty-six bioassays, such as studies on the effects of II on insulin resistant rats, lipid and leptin concns., PPAR binding, overexpression of the human insulin-like growth factor 1 receptor and human insulin receptor, toxicity, and kinectics of drug absorption. I are orally effective antidiabetic agents that normalize glucose and lipid metab.

120-14-9, 3,4-Dimethoxybenzaldehyde 7311-34-4, ΙT

3,5-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and testing of diphenylethylene antidiabetic agents that normalize glucose and lipid metab. in relation to insulin resistance)

L13 ANSWER 2 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:853573 HCAPLUS ACCESSION NUMBER:

136:251727 DOCUMENT NUMBER:

Abatement of the major contaminants present in olive TITLE:

oil industry wastewaters by different oxidation

methods: Ozone and/or UV radiation versus solar light Miranda, M. A.; Amat, A. M.; Arques, A.

AUTHOR(S):

Dipartimento de Quimica e Instituto de Tecnologia CORPORATE SOURCE:

Quimica UPV-CSIC, Universidad Politecnica de 22012, Valencia, E-46071, Spain

Water Science and Technology (2001), 44(5, Oxidation SOURCE:

Technologies for Water and Wastewater Treatment II),

325-330

CODEN: WSTED4; ISSN: 0273-1223

IWA Publishing PUBLISHER:

Journal DOCUMENT TYPE: LANGUAGE: English

Cinnamic acids (caffeic acid, ferulic acid, p-coumaric acid and cinnamic acid) in olive oil wastewaters were treated with advanced oxidn. methods: ozone and/or UV radiation. Basic and acid media were tested. Differences between all 4 acids were found, both in the reaction times and the intermediates formed. Based on a careful study of these intermediates and the variation of their concns. all along the reaction time, a formation mechanism for the degradative oxidn. of cinnamic acids is proposed. These results are compared with those obtained with solar light, using a pyrylium salt as a catalyst.

121-33-5, Vanillin IT

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative) (abatement of major contaminants present in olive oil industry

wastewaters by ozone and UV radiation vs. solar light)

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 11 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:709690 HCAPLUS ACCESSION NUMBER:

135:236395 DOCUMENT NUMBER:

Use of o-vanillin and o-vanillin/Trolox combinations TITLE:

for radioprotection of solid-state proteins, preferably protein drugs, and pharmaceutical

formulations

Shalaev, Evgenyi Yur'evich; Reddy, Renuka Devi; INVENTOR(S):

Kimball, Roger Nelson

Pfizer Products Inc., USA PATENT ASSIGNEE(S): Eur. Pat. Appl., 7 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

```
APPLICATION NO. DATE
    PATENT NO. KIND DATE
                                           _____
                                        EP 2001-302066 20010307
    EP 1136080 A2 20010926
EP 1136080 A3 20020605
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                                                             20010307
    JP 2001316294 A2 20011113
                                      JP 2001-02052
US 2001-805016
BR 2001-954
                                            JP 2001-62892
                                                             20010312
                            20011206
                      A1
    US 2001049354
                                                             20010313
    BR 2001000954
                            20011218
                                        US 2000-189101P P 20000314
PRIORITY APPLN. INFO.:
    The invention provides methods of protecting solid-state proteins, e.g.
    drugs, from the effects of ionizing radiation which comprise combining the
    protein with a radiation-protecting amt. of a methoxysalicylaldehyde
     deriv., preferably 3-methoxysalicylaldehyde; radiation-protecting amts. of
     a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and
     6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid; or
     radiation-protecting amts. of a methoxysalicylaldehyde deriv., preferably
     3-methoxysalicylaldehyde, and isopropanol, prior to exposing the protein
     to ionizing radiation. The invention further provides radiation-resistant
     pharmaceutical formulations comprising a protein and a
     methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde; a
    protein and a combination of a methoxysalicylaldehyde deriv., preferably
     3-methoxysalicylaldehyde, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-
     carboxylic acid; or a protein and a combination of a
     methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and
     isopropanol. The invention still further provides a compn. comprising a
     combination of a methoxysalicylaldehyde deriv., preferably
     3-methoxysalicylaldehyde, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-
     carboxylic acid, and for the use of such compn. in pharmaceutical
     formulations as a radioprotectant.
     148-53-8, o-Vanillin
ΙT
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (o-vanillin and o-vanillin/Trolox combinations for
        radioprotection of solid-state proteins, preferably protein
        drugs, and pharmaceutical formulations)
L13 ANSWER 4 OF 44 HCAPLUS COPYRIGHT 2002 ACS
                        2001:651941 HCAPLUS
ACCESSION NUMBER:
                          136:12688
DOCUMENT NUMBER:
                         EPR study on .gamma.-irradiated single crystals of a
TITLE:
                         nonlinear optical material: 3-methoxy-4-hydroxy
                         benzaldehyde
                        Manikandan, S.; Jayavel, R.; Dhanuskodi, S.
AUTHOR(S):
                       V.D. Polytechnic, Nagapattinam, 611001, India
Materials Chemistry and Physics (2001), 72(1), 1-4
CORPORATE SOURCE:
SOURCE:
                         CODEN: MCHPDR; ISSN: 0254-0584
                         Elsevier Science S.A.
PUBLISHER: ·
DOCUMENT TYPE:
                         Journal
                          English
LANGUAGE:
     Single crystals of nonlinear optical (NLO) material 3-methoxy-4-hydroxy
AB
     benzaldehyde (MHBA) were grown following slow evapn. method. The grown
     crystals were characterized by the measurement of unit cell dimensions
     single crystal x-ray diffraction, d., m.p. and x-ray powder diffraction
     pattern. Hardness study for the grown crystals was carried out. The
     grown crystals were .gamma.-irradiated to produce free radicals and were
     analyzed by ESR (EPR) technique.
     121-33-5, 3-Methoxy-4-hydroxy benzaldehyde
ΙT
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
         (growth and characterization and radiation damage of
        methoxyhydroxybenzaldehyde nonlinear optical materials)
                                THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
                          20
REFERENCE COUNT:
```

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:581654 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 135:147444 Novel diphenylethylene compounds TITLE: Nag, Bishwajit; Dey, Debendranath; Medicherla, INVENTOR(S): Satyanarayana Calyx Therapeutics, Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 55 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE

20010809 WO 2001-US3797 20010205 APPLICATION NO. DATE 2001056382 Al 20010809 WO 2001-US3797 20010205

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

APPLN. INFO::

WO 2001-US3797 20010205 US 2000-180340P P 20000204 PRIORITY APPLN. INFO.: US 2000-642618 A 20000817 MARPAT 135:147444 OTHER SOURCE(S): Novel diphenylethylene compds. that are administered orally to decrease AΒ circulating concns. of glucose are provided. The effect on insulin resistant rats is also shown. The effects on lipid and leptin concns. are also shown. The compds. are orally effective anti-diabetic agents that may normalize glucose and lipid metab. in subjects with diabetes. 120-14-9, 3,4-Dimethoxybenzaldehyde 7311-34-4, IT 3,5-Dimethoxybenzaldehyde RL: RCT (Reactant); RACT (Reactant or reagent) (novel diphenylethylene compds. that are anti-diabetic agents that normalize glucose and lipid metab. in relation to insulin resistance) THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 7 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L13 ANSWER 6 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:380556 HCAPLUS ACCESSION NUMBER: 135:5625 DOCUMENT NUMBER: Diabetic remedy containing dipiperazine derivative TITLE: Yamaguchi, Hiroshi; Maruta, Katsunori; Nagata, Ryu; INVENTOR(S): Ushiroda, Kantaro; Iwai, Kiyotaka Sumitomo Pharmaceuticals Co., Ltd., Japan PATENT ASSIGNEE(S): PCT Int. Appl., 176 pp. SOURCE: CODEN: PIXXD2 Patent DOCUMENT TYPE: Japanese LANGUAGE: FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: APPLICATION NO. DATE KIND DATE PATENT NO. _____

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001036386 A1 20010525 WO 2000-JP8065 20001115

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG JP 1999-326751 A 19991117

PRIORITY APPLN. INFO.:

MARPAT 135:5625

Ι

OTHER SOURCE(S): GT

AB A remedy for diabetes contains a dipiperazine deriv. represented by formula (I) or a pharmacol. acceptable salt thereof. [wherein Ar1 and Ar2 each represents optionally substituted Ph, naphthyl, or heterocyclyl; Al and A2 each represents optionally substituted alkylene or carbonyl (provided that not both of Al and A2 are carbonyl); A represents methylene or ethylene; Y1, Y2, Y3, and Y4 each represents hydrogen or alkyl; L represents -L3-X1-L1-X2-L2-X3-L4-; L3 and L4 each represents carbonyl or sulfonyl; X1 and X3 each represents a single bond, NR1, or O; R1 represents hydrogen or alkyl; X2 represents a single bond, optionally substituted alkylene, heteroarylene, phenylene, or cycloalkylidene, cycloalkylene, divalent aliph. heterocyclic group, vinylene, ethynylene, S, O, NR2CO, NR3CONR4, NR2CO2, OCO2, O2C, CO, or N(COR5); etc.; R2, R3, R4, and R5 each represents hydrogen or alkyl; and L1 and L2 each represents a single bond, optionally substituted alkylene, vinylene, or phenylene; provided that when X2 is single bond, vinylene, ethynylene, S, O, NR2CO, NR3CONR4, NR2CO2, OCO2, O2C, CO, or N(COR5), L1 or L2 is not a single bond; or when L1 or L2 is vinylene, X1 and X3 are a single bond]. These compds. lower blood sugar level and improve insulin resistance. Thus, 110 mg N-[4-(1-piperazinylcarbonyl)phenyl]-1-piperazinecarboxamide(prepn. given) was dissolved in 6 mL DMF, treated with 195 mg K2CO3 and 270 mg 4-(trifluoromethyl)benzyl bromide, and stirred at 50.degree. for 5 (trifluoromethyl)benzyl]-1-piperazinyl]carbonyl]phenyl]-1piperazinecarboxamide (II). II was administered to mice at 3 mg/kg p.o., immediately followed by insulin 3 U/kg s.c. After 4 h, the blood sugar level lowered from 261.+-.92 (control) to 129.+-.43 mg/dL.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of dipiperazine derivs. as hypoglycemics and antidiabetics for

improving insulin resistance) REFERENCE COUNT: 23

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:355085 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 134:353250

Preparation of .alpha.-(biphenylyloxo)alkanoic acids TITLE:

for treatment of insulin resistance and hyperglycemia INVENTOR(S):

Malamas, Michael S.; Mcdevitt, Robert E.; Adebayo,

Folake O.

American Home Products Corporation, USA PATENT ASSIGNEE(S):

U.S., 30 pp. SOURCE: CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. DATE |
|-----------------------|------|----------|----------------------------|
| US 6232322 | B1 | 20010515 | US 1999-307972 19990510 |
| US 2001041715 | A1 | 20011115 | US 2001-798109 20010302 |
| US 6391897 | B2 | 20020521 | |
| US 2001053785 | A1 | 20011220 | US 2001-798088 20010302 |
| US 6369072 | B2 | 20020409 | |
| PRIORITY APPLN. INFO. | : | | US 1998-113654P P 19980512 |
| | | | US 1998-76205 A 19980512 |
| | | | US 1999-307972 A3 19990510 |

MARPAT 134:353250 OTHER SOURCE(S):

GΙ

$$A \xrightarrow{R^3} OR^5$$

$$R^4 \qquad I$$

$$R^2 \xrightarrow{E} D \qquad YR^1 \qquad II$$

AΒ The title compds. [I; A = II (wherein B = C; D = O, S, N; E = C; Y = abond, CH2; CO, CHOH; R1 = alkyl, aryl, arylakyl, etc.; R2 = H, alkyl, alkoxy, etc.); R3, R4 = H, halo, alkyl, etc.; R5 = H, alkyl, etc.] were prepd. as protein-tyrosine phosphatase inhibitors. Thus, 4-BrC6H4COCH2Br was etherified by PhOH and the cyclized product condensed with 4-(MeO)C6H4B(OH)2 to give, after O-demethylation, 3-(4'hydroxybiphenylyl)benzofuran which was acylated by BzNMeOMe and the reduced product etherified by (R)-PhCH2CH(OH)CO2Me to give, after sapon., title compd (S)-III. Data for biol. activity of I were given.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of .alpha.-(biphenylyloxo)alkanoic acids for treatment of

insulin resistance and hyperglycemia)

REFERENCE COUNT: THERE ARE 98 CITED REFERENCES AVAILABLE FOR THIS 98 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 44 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:298858 HCAPLUS

DOCUMENT NUMBER: 134:315873

TITLE: Aromatic aldehydes and ketones with imidazoles as

coloring agents for keratin fibers

Moeller, Hinrich; Oberkobusch, Doris; Hoeffkes, Horst INVENTOR(S):

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

Ger. Offen., 14 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
|---------------|---------------|----------------------------|----------|
| | | | |
| DE 19951134 | A1 200104 | DE 1999-19951134 | 19991023 |
| WO 2001034106 | A1 200105 | 17 WO 2000-EP10125 | 20001014 |
| W: AU, BR, | CA, CN, CZ, H | J, JP, NO, PL, RU, SK, US, | , VN |

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE

PRIORITY APPLN. INFO.: DE 1999-19951134 A 19991023

MARPAT 134:315873 OTHER SOURCE(S):

Oxidative hair dyes contg. arom. aldehydes and ketones combined with imidazoles and other heterocyclic compds. are disclosed. Arom. components may include salicylaldehyde, 3-hydroxybenzaldehyde, 4-hydroxybenzaldehyde, o-anisaldehyde, etc. Heterocyclic components may include 1,4-dimethylquinolinium salts, 1,2-dimethylquinolinium salts,

1,4-dimethylpyridinium salts, 3-ethyl-2-methylbenzothiazolium salts, etc. These may be combined with rhodanine, barbituric acid, thiobarbituric acid, oxindole, etc.

93-02-7, 2,5-Dimethoxybenzaldehyde 120-14-9, TT

3,4-Dimethoxybenzaldehyde 121-33-5, Vanillin 3934-87-0

, 3,4-Dihydroxy-5-methoxybenzaldehyde

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (arom. aldehydes and ketones with imidazoles as coloring agents for keratin fibers)

L13 ANSWER 9 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2001:265369 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 134:295620

TITLE: Preparation and effect of 4-methoxyphenylpropionic

acid derivatives useful in insulin resistance

Shinoda, Masanobu; Emori, Eita; Matsuura, Fumiyoshi; INVENTOR(S):

Kaneko, Toshihiko; Ohi, Norihito; Kasai, Shunji; Yoshitomi, Hideki; Yamazaki, Kazuto; Miyashita, Sadakazu; Hibara, Taro; Seiki, Hisashi; Clark,

Richard; Harada, Hitoshi

Eisai Co., Ltd., Japan PATENT ASSIGNEE(S): PCT Int. Appl., 350 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ____ _____ WO 2001025181 20010412 WO 2000-JP6788 20000929 A1 W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 2000074499 A5 20010510 AU 2000-74499 20000929 EP 1216980 A1 20020626 EP 2000-962993 20000929

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, FI, CY

PRIORITY APPLN. INFO.: JP 1999-282079 A 19991001

JP 1999~369442 A 19991227 JP 2000~38795 A 20000216 JP 2000~104260 A 20000406 JP 2000~2000038795A 20000216 JP 2000~2000104260A 20000406

WO 2000-JP6788 W 20000929

OTHER SOURCE(S): MARPAT 134:295620

GI

F₃C NH OH OH Me

AB Title compds. [Y:L:X:TZM:CWR1; R1 is hydrogen, hydroxyl, alkyl; L is single bond, double bond, alkylene; M is single bond, alkylene; T is single bond, alkylene; W is carboxyl, amide; X is oxygen, alkenylene; Y is arom. hydrocarbon; Z is arom. hydrocarbon; colon represents single, or double bond], salts, esters, and hydrates are prepd. and are useful in prevention or treatment of diabetes and X-syndrome. Thus, the title compd. I was prepd. and biol. tested.

Ι

IT 71295-21-1, Benzaldehyde, 5-Bromo-2,3-dimethoxy-

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and effect of methoxyphenylpropionic acid derivs. useful in insulin resistance improvement as PPAR agonists)

IT 334016-42-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and effect of methoxyphenylpropionic acid derivs. useful in

insulin resistance improvement as PPAR agonists)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 10 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:262725 HCAPLUS

DOCUMENT NUMBER: 135:2250

TITLE: Negligible influence of elevated UV-B radiation on

leaf litter quality of Quercus robur

AUTHOR(S): Newsham, K. K.; Splatt, P.; Coward, P. A.; Greenslade,

P. D.; McLeod, A. R.; Anderson, J. M.

CORPORATE SOURCE: Centre for Ecology and Hydrology, Huntingdon, PE14

2LS, UK

SOURCE: Soil Biology & Biochemistry (2001), 33(4-5), 659-665

CODEN: SBIOAH; ISSN: 0038-0717

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The authors tested whether elevated UV-B radiation applied to Quercus robur, a principal climax species of northern Europe, would influence concns. of polyphenolics (Folin-Denis tannins and lignin), phenylpropanoid

moieties of lignin, carbohydrates (monosaccharides and holocellulose), or nutrient elements (K, Ca, Mg, P and N) in recently-abscised leaf litter. Saplings of Q. robur were exposed for 2 yr at an outdoor facility in the UK to a 30% elevation above the ambient amt. of erythemally-weighted UV-B (280-315 nm) radiation under arrays of fluorescent lamps with cellulose diacetate filters, which transmitted both UV-B and UV-A (315-400 nm) radiation. Saplings were also exposed to elevated UV-A alone under arrays of lamps with polyester filters and to ambient radiation under nonenergized arrays of lamps. Little evidence was found that elevated UV-B radiation influenced leaf litter quality. Data pooled for both years indicated an 8% increase in vanillic acid concn. in litter from polyester-filtered lamp arrays, relative to nonenergized arrays, and 8% and 6% increases, resp., in concns. of acetovanillone in litter from polyester- and cellulose diacetate-filtered lamp arrays, relative to nonenergized lamp arrays. Arabinose concn. in litter from cellulose diacetate-filtered lamp arrays was 3% higher than in litter from polyester-filtered arrays, and glucose concn. in litter from cellulose-diacetate filtered lamp arrays was increased by 6%, relative to nonenergized arrays. There were no main effects of elevated UV on the concns. of holocellulose, polyphenolics or nutrient elements. Thus, exposure to elevated UV-B does not substantially influence the initial chem. compn. of Q. robur leaf litter, and any increases in UV-B radiation arising from ozone depletion over northern mid-latitudes will be unlikely to affect nutrient cycling and decompn. in Quercus woodlands through effects on litter quality alone.

121-33-5, Vanillin 134-96-3, Syringaldehyde IT

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL

(Biological study); PROC (Process)

(negligible influence of elevated UV-B radiation on leaf

litter quality of Quercus robur)

THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 32 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 11 OF 44 HCAPLUS COPYRIGHT 2002 ACS 2000:607330 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 133:193067

TITLE: Preparation of 11-aryl-benzo[b]naphtho[2,3-d]furans

and 11-aryl-benzo[b]naphtho[2,3-d]thiophenes for treating insulin resistance and hyperglycemia Wrobel, Jay E.; Dietrich, Arlene J.; Li, Zenan

INVENTOR(S): American Home Products Corporation, USA PATENT ASSIGNEE(S):

U.S., 67 pp. SOURCE:

CODEN: USXXAM

DOCUMENT TYPE: Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE US 6110962 20000829 US 1999-307840 19990510 A US 1998-98554P P 19980512 PRIORITY APPLN. INFO.:

MARPAT 133:193067 OTHER SOURCE(S):

GΙ

AB The title compds. [I; A = H, halo, OH; B, D = H, halo, CN, etc.; E = S, SO, SO2, O; X = H, halo, alkyl, etc.; Y, Z = H, OR2; R2 = H, alkyl, aralkyl, CH2CO2R3; R3 = H, alkyl; C = H, halo, OR4; R4 = H, alkyl, CH(R5)W, etc.; R5 = H, alkyl, aralkyl, etc.; W = CONH2, CONHOH, CN, etc.; with the proviso that at least one of A-D is not H atom] and their pharmaceutically acceptable salts, which are useful in treating insulin resistance and hyperglycemia, were prepd. E.g., a multi-step synthesis of I [A, B, D = H; C = OH; E = S; X, Y, Z = H] which showed -34.19% change from control in test for PTPase inhibition at 50 .mu.M, was given.

IT 591-31-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 11-aryl-benzo[b]naphtho[2,3-d]furans and

11-aryl-benzo[b]naphtho[2,3-d]thiophenes for treating insulin

resistance and hyperglycemia)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 12 OF 44 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:442128 HCAPLUS

ACCESSION NUMBER: 2000:4421 DOCUMENT NUMBER: 133:79004

TITLE: Agents for coloring keratin fibers

INVENTOR(S): Moeller, Hinrich; Oberkobusch, Doris; Hoeffkes, Horst

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: Ger. Offen., 17 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|------------------|----------|
| | | | | |
| DE 19859810 | A1 | 20000629 | DE 1998-19859810 | 19981223 |
| WO 2000038634 | A1 | 20000706 | WO 1999-EP9910 | 19991214 |
| W: AU, JP, | US | | | |
| | | | | |

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1998-19859810 A 19981223

OTHER SOURCE(S): MARPAT 133:79004

GI

$$R^{1}$$
 $CH = CH$
 CHO
 R^{2}
 R^{3}
 I

AΒ Keratin fibers, esp. human hair, can be dyed with arom. nitro aldehydes [I; R1-R3 = H, halo, alkyl, hydroxyalkyl, aminoalkyl, alkoxy, acyl, OH, NO2, CO2H, acylamino, sulfo, (substituted) amino, or any 2 of R1-R3 may complete a condensed arom. ring; n = 0-2] in the presence of absence of oxidizing agents. These dyes provide outstanding brilliance and depth of color primarily in the yellow and orange range; the color range can be extended by addnl. use of primary or secondary aliph. or arom. amines or alcs., N-heterocycles, amino acids, oligopeptides, arom. OH compds., and/or active CH compds. Thus, a soln. contg. 4-nitrobenzaldehyde 5, 3-amino-2-methylamino-6-methoxypyridine-2HCl 5, NaOAc 5 mmol, and 1 drop 20% fatty alkyl ether sulfate in 50 mL H2O (pH 6) was applied to gray hair for 30 min at 30.degree. to produce an intense violet-brown color.

6635-20-7, 5-Nitrovanillin 17028-61-4,

2-Hydroxy-3-methoxy-5-nitrobenzaldehyde 20357-25-9,

4,5-Dimethoxy-2-nitrobenzaldehyde 53055-05-3,

3-Methoxy-2-nitrobenzaldehyde

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(agents for coloring keratin fibers)

L13 ANSWER 13 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:364958 HCAPLUS

DOCUMENT NUMBER:

133:99524

TITLE:

Vanillin (3-methoxy-4-hydroxybenzaldehyde) inhibits

mutation induced by hydrogen peroxide,

N-methyl-N-nitrosoguanidine and mitomycin C but not

137Cs .gamma.-radiation at the CD59 locus in

human-hamster hybrid AL cells

AUTHOR(S):

Gustafson, Daniel L.; Franz, Holly R.; Ueno, Akiko M.; Smith, Carr J.; Doolittle, David J.; Waldren, Charles

CORPORATE SOURCE:

Department of Radiological Health Sciences, Colorado

State University, Fort Collins, CO, 80523, USA

SOURCE:

Mutagenesis (2000), 15(3), 207-213

CODEN: MUTAEX; ISSN: 0267-8357

PUBLISHER:

Oxford University Press

DOCUMENT TYPE:

Journal LANGUAGE: English

The authors have investigated the ability of the naturally occurring plant essence vanillin (3-methoxy-4-hydroxybenzaldehyde) to inhibit mutation at the CD59 locus on human chromosome 11 by hydrogen peroxide, N-methyl-N-nitrosoguanidine, mitomycin C and 137Cs .gamma.-radiation in human-hamster hybrid AL cells. Previous studies using vanillin have suggested that it can inhibit chromosome aberrations induced by hydrogen peroxide and mitomycin C, as well as inhibiting x-ray- and UV-induced mutations at the hprt locus. Other studies with vanillin have shown that it can increase both the toxicity and mutagenicity of Et methane sulfonate and increase the induction of sister chromatid exchange by mitomycin C and a variety of other mutagens. The increased sensitivity of the AL assay, which is due in part to its ability to detect both small (single locus) and large (multilocus) genetic damage, allows the authors to measure the effect of vanillin at low doses of mutagen. Vanillin is shown, in these

studies, to inhibit mutation induced by hydrogen peroxide, N-methyl-N-nitrosoguanidine and mitomycin C, as well as to enhance the toxicity of these agents. Vanillin had no effect on either toxicity or mutation induced by 137Cs .gamma.-radiation. The vanillin-induced potentiation of H2O2 toxicity is shown not to involve inhibition of catalase or glutathione peroxidase. These results show that vanillin is able to inhibit mutation at the CD59 locus and modify toxicity in a mutagen-specific manner. Possible mechanisms to explain the action of vanillin include inhibition of a DNA repair process that leads to the death of potential mutants or enhancement of DNA repair pathways that protect from mutation but create lethal DNA lesions during the repair process.

IT 121-33-5, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vanillin (3-methoxyhydroxybenzaldehyde) inhibits mutation induced by hydrogen peroxide and methylnitrosoguanidine and mitomycin C but not 137Cs .gamma.-radiation at CD59 locus in human-hamster hybrid AL cells)

REFERENCE COUNT:

50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 14 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:233974 HCAPLUS 132:260679

DOCUMENT NUMBER: TITLE:

Diarylquinonemethides, interferon .gamma. inhibitors,

and pharmaceuticals

INVENTOR(S):

Takahashi, Kazunobu; Kawakami, Masayuki; Kageyama,

Shigeki

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------|------|-----------------------------|-----------------|----------|
| | | | | |
| JP 2000103769 | A2 | 20000411 RPAT 132:260679 | JP 1998-273981 | 19980928 |
| OTHER SOURCE(S): | MM | RPAI 132:2000/9 | | |

GI

$$R^{1}$$
 R^{2}
 R^{3}
 R^{4}
 R^{4}
 R^{5}
 R^{7}
 R^{7}

AB Pharmaceuticals for prevention and treatment of autoimmune diseases contain title compds. I [R1-R4 = H, halo, (substituted) C1-6 alkyl, (substituted) C1-6 alkoxy; A, B = Q; R5, R6 = H, halo, (substituted) C1-6 alkyl, alkoxy, alkylamino, alkylthio; R7, R8 = H, (substituted) C1-8 alkyl; R5R7, R6R8, R7R8 may form ring] or their salts.
.alpha.-(4-Dimethylaminophenyl)-4-tert-butyldimethylsiloxy-3,5-

dimethoxybenzyl alc. (prepn. given) was treated with N-ethylbenzoxazine in the presence of Bu4N+ and H2SO4 in i-PrOH/THF under reflux for 5 h to give 67% condensate, which was oxidized by chloranil in AcOEt at room temp. for 5 h to give 46% I (R1 = R2 = OMe, R3 = R4 = H, A = C6H4NMe2-p, B = N-ethyl-1,4-benzoxazin-7-yl) (II). II in vitro inhibited interferon .gamma. formation with IC50 of 2.2 .mu.g/mL.

IT 106852-80-6

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of diarylquinonemethides as interferon .gamma.
 inhibitors)

L13 ANSWER 15 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2000:215987 HCAPLUS

DOCUMENT NUMBER:

132:246357

TITLE:

Quinonemethides, interferon .gamma. inhibitors, and

pharmaceuticals

INVENTOR(S):

Sugai, Shoji; Nishikawa, Naoyuki; Aoki, Kozo;

Kageyama, Shigeki

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2000095737 A2 20000404 JP 1998-271529 19980925

OTHER SOURCE(S):

MARPAT 132:246357

GI

$$R^{1}$$
 R^{2}
 R^{2}
 R^{4}
 R^{4

Pharmaceuticals, useful for prevention and treatment of autoimmune diseases, contain quinonemethides I [R1-R4 = H, halo, NH2, acyl, acylamino, OH, (substituted) lower alkyl, (substituted) lower alkoxy] or their salts. 3,5-Dichloro-4-hydroxybenzaldehyde (95.5 g) was condensed with 177 g 2,6-diisopropylaniline in the presence of urea and H2SO4 in i-PrOH under reflux for 8 h, oxidized by chloranil in AcOEt under reflux for 2 h, and heated in MeOH to give 113 g I (R1 = R2 = Cl, R3 = R4 = H), which in vitro inhibited human interferon .gamma. formation with IC50 of 2.7 .mu.g/mL.

IT 121-33-5P, 4-Hydroxy-3-methoxybenzaldehyde 134-96-3P, 3,5-Dimethoxy-4-hydroxybenzaldehyde 2973-76-4P, 5-Bromovanillin

5438-36-8P, 5-Iodovanillin 19463-48-0P, 5-Chlorovanillin RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of quinonemethides as interferon .gamma. inhibitors)

L13 ANSWER 16 OF 44 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:784068 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

132:22756

TITLE:

Preparation of new 3-arylpropionic acid derivatives and analogs and the use of the compounds in conditions

associated with insulin resistance

INVENTOR(S):

Andersson, Kjell; Boije, Maria; Gottfries, Johan; Inghardt, Tord; Li, Lanna; Lindstedt, Alstermark

Eva-lotte

PATENT ASSIGNEE(S):

Astra Aktiebolag, Swed.; Lindstedt Alstermark,

Eva-Lotte

SOURCE:

PCT Int. Appl., 177 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

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FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| I | PAT | ENT 1 | .00 | | KII | ND | DATE | | | | PPLI | | |). | DATE | | | |
|-------|------|-------|-------|------|------------|-----|--------|------|------|-----|------|-----|-----|--------|------|------|-----|-----|
| 7 | WO : | 99628 | 871 | | A : | 1 | 1999 | 1209 | | | | | | | 1999 | 0531 | | |
| | | W: | ΑE, | AL, | AM, | AT, | AU., | ΑZ, | BA, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CU, | CZ, |
| | | | DE, | DK, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, |
| | | | JP, | KE, | KG, | KΡ, | KR, | ΚZ, | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MD, | MG, | MK, |
| | | | MN, | MW, | MX, | NO, | NΖ, | PL, | PT, | RO, | RU, | SD, | SE, | SG, | SI, | SK, | SL, | ТJ, |
| | | | TM, | TR, | TT, | UA, | UG, | US, | UZ, | VN, | YU, | ZA, | ZW, | ΑM, | AZ, | BY, | KG, | ΚZ, |
| | | | | RU, | | | | | | | | | | | | | | |
| | | RW: | | | | | | | | | | | | | CH, | | | |
| | | | | | | | | | | | | | | SE, | BF, | ΒJ, | CF, | CG, |
| | | | | | | | | | | | SN, | | | | | | | |
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| | | | | | | | | | | | | | | | 1999 | | | |
| I | EP : | | | | | | | | | | | | | | 1999 | | | |
| | | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | | | SI, | | | | | | | | | | | | | | |
| | | | | | | | | | | | P 20 | | | | 1999 | | | |
| | | | | | | | | 0202 | | | | | | | 2000 | | | |
| PRIOR | ΙΤΥ | APP: | LN. | INFO | .: | | | | | _ | | | | | 1998 | | | |
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| | | | | | | | | | | | | | | | 1998 | | | |
| | | | | | | | | | | | | | 2 | W | 1999 | 0531 | | |
| OTHER | CO | TDCE | 101 . | | | MAD | יייתעם | 132. | ククフち | 6 | | | | | | | | |

OTHER SOURCE(S):

MARPAT 132:22756

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AB Prepn. of 3-arylpropionic acid derivs. and analogs I [A = CR3R4CR1R2COR, CR3:CR1COR; D = OSO2Rd, NRcRd, CN, etc.; D1 = H, alkyl, aryl, etc.; D2 = H, acyl, NO2, etc.; n = 1-3] and their use as treatment for insulin resistance are described. E.g., 2-ethoxy-3-[4-(2-{4-methanesulfonyloxyphenyl}ethoxy)phenyl]propanoic acid was prepd.

IT 2426-87-1, 4-Benzyloxy-3-methoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of arylpropionic acids for treatment of insulin

resistance)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 17 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 199

1999:736689 HCAPLUS

DOCUMENT NUMBER:

131:351227

TITLE:

Preparation of 11-aryl-benzo[b]naphtho[2,3-d]furans and 11-aryl-benzo[b]naphtho[2,3-d]thiophenes useful in the treatment of insulin resistance and hyperglycemia Wrobel, Jay Edward; Dietrich, Arlene Joan; Li, Zenan

INVENTOR(S):

American Home Products Corp., USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 209 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

GΙ

י. 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ______ _____ ____ _____ WO 1999-US10185 19990510 19991118 WO 9958521 Α1 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2330623 AA 19991118 CA 1999-2330623 19990510 AU 1999-39791 19990510 AU 9939791 Α1 19991129 EP 1077970 A1 20010228 EP 1999-922897 19990510 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO JP 2000-548325 19990510 JP 2002514638 T2 20020521 US 1998-76592 A 19980512 PRIORITY APPLN. INFO.: WO 1999-US10185 W 19990510 OTHER SOURCE(S): MARPAT 131:351227

AB The title compds. [I; A = H, halo, OH; B, D = H, halo, CN, etc.; E = S, SO, SO2, O; X = H, halo, alkyl, etc.; Y, Z = H, OR2; R2 = H, alkyl, aralkyl, etc.; C = H, halo, OR4; R4 = H, alkyl, 5-thiazolidine-2,4-dione,

Ι

etc.] and their pharmaceutically acceptable salts, which are useful in treating metabolic disorders related to insulin resistance or hyperglycemia, were prepd. Thus, treatment of 4-benzo[b]naphtho[2,3d]thiophen-11-ylphenol and KOAc in AcOH with a soln. of Br2 in glacial AcOH afforded I [E = S; Y = Z = H; X = Br; A = H; B = D = Br; C = OH] which showed IC50 of 0.384 .mu.M against human recombinant PTP1B. 591-31-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 11-aryl-benzo[b]naphtho[2,3-d]furans and

11-aryl-benzo[b]naphtho[2,3-d]thiophenes useful in the treatment of

insulin resistance and hyperglycemia)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 18 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1999:736685 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 131:351222

TITLE: Preparation of .alpha.-(biphenylyloxo)alkanoic acids

for treatment of insulin resistance and hyperglycemia Malamas, Michael Sotirios; McDevitt, Robert Emmett;

Adebayo, Folake Oluwemimo

PATENT ASSIGNEE(S): American Home Products Corporation, USA

PCT Int. Appl., 79 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

IT

| PA | TENT | NO. | | KI | ND | DATE | | | A1 | PPLI | CATI | N NC | o. | DATE | | | |
|---------|--------------|------|------|-----|-----|----------------|------|------|------|-------|-------|-------|-----|-------|------|-----|-----|
| | 9958 9958 | | | | | 1999: 2000: | | | W | 0 19 | 99-U | S102 | 01 | 1999 | 0510 | | |
| | W: | | | • | | • | • | | | | | • | | CH, | | • | |
| | | DE, | DK, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | GM, | HR, | ΗU, | ID, | IL, | IN, | IS, |
| | | JP, | KE, | KG, | ΚP, | KR, | ΚZ, | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MD, | MG, | MK, |
| | | MN, | MW, | MX, | NO, | NZ, | PL, | PT, | RO, | RU, | SD, | SE, | SG, | SI, | SK, | SL, | ТJ, |
| | | TM, | TR, | TT, | UA, | UG, | UZ, | VN, | YU, | ZA, | ZW, | AM, | AZ, | BY, | KG, | ΚZ, | MD, |
| | | | TJ, | | | | | | | | | | | | | | |
| | RW: | GH, | GM, | KE, | LS, | MW, | SD, | SL, | SZ, | UG, | ZW, | ΑT, | BE, | CH, | CY, | DE, | DK, |
| | | ES, | FI, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | BF, | ВJ, | CF, | CG, |
| | | CI, | CM, | GA, | GN, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | |
| CA | 2330 | 557 | | A | A | 1999 | 1118 | | C | A 19 | 99-2 | 3305 | 57 | 19990 | 0510 | | |
| AU | 9941 | 836 | | A. | 1 | 1999 | 1129 | | A | J 19 | 99-4 | 1836 | | 1999 | 0510 | | |
| EP | 1077 | 967 | | A. | 2 | 2001 | 0228 | | E | P 19 | 99-9 | 25583 | 3 | 1999 | 0510 | | |
| | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙT, | LI, | LU, | NL, | SE, | PT, | ΙE, |
| | | SI, | LT, | LV, | FI, | RO | | | | | | | | | | | |
| JP | 2002 | 5146 | 35 | T | 2 | 2002 | 0521 | | J | P 20 | 00-5 | 4832 | 2 | 1999 | 0510 | | |
| PRIORIT | Y APP | LN. | INFO | . : | | | | 1 | US 1 | 998- | 7620 | 5 | A | 1998 | 0512 | | |
| | | | | | | | | | WO 1 | 999-1 | US10: | 201 | W | 1999 | 0510 | | |
| OTHER S | OURCE | (S): | | | MAR | PAT | 131: | 3512 | 22 | | | | | | | | |

GI

AΒ Title compds. [I; R = 4-(R1Z1Z2)C6H4; R1 = (ar)alkyl, alkoxy, (hetero)aryl, etc.; Z1 = bond, CH2, CO, CH(OH); Z2 = (benz)imidazolylene, (benzo) furylene, thienylene, etc.; R3,R4 = H, halo, alkyl, alkoxy, etc.; R5 = H, alkyl, CH2CO2H, CHR8CH2CO2H, etc.; R8 = H, (ar)alkyl, aryl, etc.] were prepd. as protein-tyrosine phosphatase inhibitors. Thus, 4-BrC6H4COCH2Br was etherified by PhOH and the cyclized product condensed with 4-(MeO)C6H4B(OH)2 to give, after O-demethylation, 3-(4'-hydroxybiphenylyl)benzofuran which was acylated by BzNMeOMe and the reduced product etherified by (R)-PhCH2CH(OH)CO2Me to give, after sapon., title compd (S)-II. Data for biol. activity of I were given.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of .alpha.-(biphenylyloxo)alkanoic acids for treatment of insulin resistance and hyperglycemia)

HCAPLUS COPYRIGHT 2002 ACS L13 ANSWER 19 OF 44

ACCESSION NUMBER: 1999:172597 HCAPLUS

DOCUMENT NUMBER: 130:209716

TITLE: Preparation of 2-vinyl-4-aminoquinazoline derivatives

as insulin secretion promoters and antidiabetics

Ueno, Kimihisa; Nomoto, Yuji; Takasaki, Kotaro; Yoshida, Miho; Kusaka, Hideaki; Yano, Hiroshi; INVENTOR(S):

Nakanishi, Satoshi; Matsuda, Yuzuru; Uesaka, Noriaki;

Suzuki, Chiharu

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan; et al.

PCT Int. Appl., 113 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent

Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PA. | TENT | NO. | | KI | ND | DATE | | | A. | PPLI | CATI | ON NO | ٥. | DATE | | | |
|----------|-------|-----|------|-----|-----|------|------|-----|------|------|------|-------|------------|------|------|-----|-----|
| | | | | | | | | | | | | | ~ <i>-</i> | | | | |
| WO | 9909 | 986 | | A | 1 | 1999 | 0304 | | Mo | o 19 | 98-J | P371 | 1 | 1998 | 0821 | | |
| | W: | AU, | BG, | BR, | CA, | CN, | CZ, | HU, | IL, | JΡ, | KR, | MX, | NO, | ΝZ, | PL, | RO, | SG, |
| | | SI, | SK, | UA, | US, | VN, | AM, | AZ, | BY, | KG, | KΖ, | MD, | RU, | ТJ, | TM | | |
| | RW: | AT, | BE, | CH, | CY, | DE, | DK, | ES, | FI, | FR, | GB, | GR, | IE, | ΙT, | LU, | MC, | NL, |
| | | PT, | SE | | | | | | | | | | | | | | |
| AU | 9887 | 487 | | Α | 1 | 1999 | 0316 | | A | U 19 | 98-8 | 7487 | | 1998 | 0821 | | |
| PRIORITY | Y APP | LN. | INFO | . : | | | | | JP 1 | 997- | 2259 | 63 | | 1997 | 0822 | | |
| | | | | | | | | , | WO 1 | 998- | JP37 | 11 | | 1998 | 0821 | | |

OTHER SOURCE(S): MARPAT 130:209716

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AΒ Claimed are insulin secretion promoters and remedies for diabetes which contain as the active ingredient 2-vinyl-4-aminoquinazoline derivs. represented by general formula (I) or pharmacol. acceptable salts thereof [wherein R1A and R1B are the same or different and each represents hydrogen, lower alkyl, lower alkoxy, halogeno, nitro, NR3R4 (wherein R3 and R4 are the same or different and each represents hydrogen or lower alkyl), etc.; or RIA may form together with RIB adjacent thereto O(CH2)nO (wherein n is 1 or 2); Cy represents optionally substituted aryl; R2 represents hydrogen or optionally substituted lower alkyl; and A represents hydrogen or optionally substituted lower alkyl, optionally substituted cycloalkyl, etc.; or R2 and A may form together with the nitrogen atom adjacent thereto an optionally substituted heterocycle]. These compds. exhibited insulin secretion activity at high concn. of glucose (14.5 mM) but no substantial activity at low concn. of glucose (.ltoreq.5 mM). For comparison, glubenclamide did exhibit substantial insulin-secretion activity at low concn. of glucose. Thus, 7-chloro-7-methoxy-2-[2-(E)-(2,4-dimethoxyphenyl)vinyl]quinazoline was condensed with N-methylphenethylamine to give the title compd. (II). II in vitro showed insulin secretion activity of 3,413 ng/mL at 1 .mu.M under 14.5 mM glucose and 86 ng/mL at 10 .mu.M under 5 mM glucose in spleen .beta.-cells (MIN6) as compared to that of 684 ng/mL at 0.1 .mu.M under 14.5 mM glucose and 317 ng/mL at 0.1 .mu.M under 5 mM glucose for glubenclamide.

IT 93-02-7, 2,5-Dimethoxybenzaldehyde 591-31-1,

m-Anisaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of vinylaminoquinazoline derivs. as insulin secretion

promoters and antidiabetics)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 20 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:168719 HCAPLUS

DOCUMENT NUMBER: 131:18199

TITLE: Effect of .gamma.-radiation on the volatile oil

constituents of some Indian spices

AUTHOR(S): Variyar, Prasad S.; Bandyopadhyay, C.; Thomas, P. CORPORATE SOURCE: Food Technology Division, Bhabha Atomic Research

Centre, Mumbai, 85, India

SOURCE: Food Research International (1999), Volume Date 1998,

31(2), 105-109

CODEN: FORIEU; ISSN: 0963-9969

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The volatile essential oils of com. samples of clove, cardamom and nutmeg gamma-irradiated at 10 KGy for microbial decontamination were isolated by simultaneous distn.-extn. technique and then analyzed by gas liq. chromatog. (GLC) along with their non-irradiated counterparts. No qual. and major quant. changes were obsd. in the essential oil constituents of irradiated clove and cardamom. However in case of irradiated nutmeg, a 6-fold increase in the content of myristicin accompanied by a decrease of similar magnitude in elemicin content was noted. The possible impact of such changes on the sensory properties of nutmeg is discussed.

IT **121-33-5**, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(effect of .gamma.-radiation on volatile oil constituents of

Indian spices)

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 21 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1998:735784 HCAPLUS

DOCUMENT NUMBER:

129:335009

TITLE:

Kinetics of the elimination of vanillin by UV radiation catalyzed with hydrogen peroxide

AUTHOR(S):

Benitez, F. Javier; Beltran-Heredia, Jesus; Gonzalez,

Teresa; Real, Francisco

CORPORATE SOURCE:

Departamento Ingenieria Quimica Energetica, Univ.

Extremadura, Badajoz, E-06071, Spain

SOURCE:

Fresenius Environmental Bulletin (1998), 7(11/12),

726-733

CODEN: FENBEL; ISSN: 1018-4619 Fresenius Environmental Bulletin

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Journal English

The photodegrdn. of vanillin, the major phenolic pollutant in agro-industrial wastewater by the advanced oxidn. process, was carried out in a cylindrical glass reactor with a lamp located in axial position. reactor was thermostated at the desired temp. for detn. of the temp. dependence of the reaction rate. The combined UV-H2O2 degrdn. was performed under variation of temp., pH, and the initial H2O2 concn. results of the kinetic investigations allowed to propose a reaction mechanism and a general reaction expression taken into account the direct photolysis and the radical reaction. The application of the exptl. data to this reaction rate expression led to the evaluation of the kinetic consts. for the radical reaction between vanillin and the hydroxyl radical.

121-33-5, Vanillin IT

RL: POL (Pollutant); REM (Removal or disposal); OCCU (Occurrence); PROC (Process)

(kinetics of vanillin elimination in wastewater by UV radiation and hydrogen peroxide)

L13 ANSWER 22 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1998:424549 HCAPLUS

DOCUMENT NUMBER:

129:142605

TITLE:

Radiation-sensitive photoresist compositions with less

standing wave effect and halation

INVENTOR(S):

Inomata, Katsuki; Akiyama, Masahiro; Iwanaga,

Shinichiro

PATENT ASSIGNEE(S): SOURCE:

Japan Synthetic Rubber Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. _____ ____ _____ JP 10177248 A2 19980630 JP 1996-353287 19961217

OTHER SOURCE(S):

MARPAT 129:142605

GΙ

$$\begin{array}{c} R_{n}^{4}2 \\ (HO)_{p^{2}} CH \\ R_{m}^{1}1 \end{array}$$

AB The compns., useful for fabrication of integrated circuits, comprise alkali-sol. resins, I and/or II $[R1-4=alkyl\ (oxy),\ aryl;\ m1,\ m2=0-3;\ n1,\ n2=0-2;\ p1,\ p2=1-3;\ (m1+p1)=1-5;\ (m2+p2)=1-8],\ and 1,2-quinonediazide compds.$

IT **121-33-5**, Vanillin

RL: RCT (Reactant); RACT (Reactant or reagent)
 (in prepn. of phenol or naphthol derivs. for radiation
 -sensitive photoresist components)

L13 ANSWER 23 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:175833 HCAPLUS

DOCUMENT NUMBER: 128:237219

TITLE: Radiation-sensitive resin composition

INVENTOR(S): Hirose, Kouichi; Akiyama, Masahiro; Inomata, Katsumi;

Yumoto, Yoshiji

PATENT ASSIGNEE(S): Japan Synthetic Rubber Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
|----------------------|---------------|----------------------------|-----------------|
| | | | |
| EP 827024 | A2 199803 | | 19970827 |
| EP 827024 | A3 199805 | 13 | |
| R: AT, BE, | CH, DE, DK, E | S, FR, GB, GR, IT, LI, LU, | NL, SE, MC, PT, |
| IE, FI | | | |
| JP 10133366 | A2 199805 | 22 JP 1997-246172 | 19970827 |
| US 5958645 | A 199909 | 028 US 1997-917727 | 19970827 |
| PRIORITY APPLN. INFO | .: | JP 1996-245535 | 19960828 |
| OTHER SOURCE(S): | MARPAT 12 | 8:237219 | |
| GI | | | |

AB A radiation-sensitive resin compn. including; (i) an alkali-sol. resin; (ii) a phenol compd. represented by the following formula (I): wherein R1 to R4 are each represent halogen, alkyl, alkoxy, aryl, nitro, cyano, hydroxyalkyl, hydroxy alkoxy or hydroxyl; m, n, p and q each represent an integer of 0 to 4 and satisfying 0 .ltoreq. m+n .ltoreq. 4 and 0 .ltoreq. p+q .ltoreq. 4, provided that when m + n is 1 and p + q is 1, at least one of R1 (or R2) and R3 (or R4) is alkyl, hydroxyalkyl or hydroxy alkoxy; R5 to R10 are each represent hydrogen, alkyl or aryl; and X1 and X2 each represent oxygen or sulfur; and (iii) a 1,2-quinone diazide compd. This compn. has good resoln., sensitivity and developability, and further it has as a pos. resist good focal latitude and heat resistance. No fine particles may form during storage.

compn.)

AUTHOR(S):

SOURCE:

L13 ANSWER 24 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:137214 HCAPLUS

DOCUMENT NUMBER: 128:267747

TITLE: Protective effect of vanillin on radiation-induced

micronuclei and chromosomal aberrations in V79 cells Keshava, Channa; Keshava, Nagalakshmi; Ong, Tong-man;

Nath, Joginder

CORPORATE SOURCE: College of Agriculture and Forestry, Genetics and

Developmental Biology Program, West Virginia University, Morgantown, WV, 26506-6108, USA Mutation Research (1998), 397(2), 149-159

CODEN: MUREAV; ISSN: 0027-5107

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

Vanillin (VA), an anticlastogen, has been demonstrated to inhibit gene AB mutations in both bacterial and mammalian cells. However, the data on its effect against radiation-induced cytogenetic damage are limited. The aim of this study was to investigate the protective effect of VA on radiation-induced chromosomal damage in V79 cells. Exponentially growing cells were exposed to five doses of X-rays (1-12 Gy) and UV radiation (50-800 .mu.J.times. 102 cm-2) and posttreated with 3 concns. of VA (5, 50)or 100 .mu.g ml-1) for 16 h for micronucleus (MN) and 18 h for structural chromosomal aberration (SCA) analyses. MN and SCA assays were performed concurrently according to std. procedures. Results indicate that there was a dose related increase in the percent of micronucleated binucleated cells (MNBN) (5.6 to 79.6) and percent of aberrant cells (Abs) (12 to 98) with X-ray treatment alone. Inhibition studies showed that the addn. of VA at 100° .mu.g ml-1 significantly reduced the percent of MNBN (21 to 48) induced by X-rays at 1, 2, and 4 Gy. There was a slight decrease in percent MNBN at 5 and 50 .mu.g VA ml-1. All three concns. of VA decreased percent Abs (15.7 to 57.1) induced by X-rays at all doses. UV radiation alone significantly increased percent MNBN (3.5 to 14.8) and percent Abs (17 to 29). Addn. of 50 or 100 .mu.g VA ml-1, significantly decreased percent MNBN (31.7 to 86.2) and percent Abs (54.5 to 90.9) at all doses of

UV radiation. A decrease in percent MNBN (2.8 to 72.4) and percent Abs (34.8 to 66.7) was also noted at 5 .mu.g VA ml-1. These data clearly indicate the protective effect of VA on radiation-induced chromosomal damage, suggesting that VA is an anticlastogenic agent.

IT 121-33-5, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vanillin protective effect on radiation-induced micronuclei and chromosomal aberrations)

L13 ANSWER 25 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:87808 HCAPLUS

DOCUMENT NUMBER: 128:158724

TITLE: Oxidative dyes containing aldehydes for

keratin-containing fibers

INVENTOR(S): Moeller, Hinrich; Hoeffkes, Horst

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: Ger. Offen., 12 pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|------------------|----------|
| | | | | |
| DE 19630275 | A1 | 19980129 | DE 1996-19630275 | 19960726 |
| EP 820759 | A2 | 19980128 | EP 1997-112194 | 19970717 |
| ED 020750 | 7/2 | 10001021 | | |

EP 820759 A3 19981021 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE. FI

PRIORITY APPLN. INFO.: DE 1996-19630275 19960726

OTHER SOURCE(S): MARPAT 128:158724

Ι

GI

Direct hair dyes contg. an aldehyde I (R1-R4 = H, halo, C1-4 alkyl or alkoxy, C2-4 hydroxyalkyl, C1-4 aminoalkyl, NO2, CO2H, SO3H, etc.; n = 0, 1) and a dye precursor comprising a primary or secondary arom. amine, an N-contg. heterocycle, an arom. hydroxy compd., an amino acid, and/or an oligopeptide may be used either with or without addn. of oxidizing agents such as H2O2. In either case, the dyes show excellent color intensity in a wide range of color nuances from yellowish-orange to brownish-black, excellent color fastness, and very low sensitizing potential. Thus, a soln. contg. equal parts of 2,3,4-trihydroxybenzaldehyde and 2-aminomethyl-4-aminophenol-Dihydrochloride produced a strong brownish-orange color on gray hair.

IT **121-33-5**, Vanillin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oxidative dyes contg. aldehydes for keratin-contg. fibers)

L13 ANSWER 26 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1997:217387 HCAPLUS ACCESSION NUMBER: 126:279275 DOCUMENT NUMBER:

Spectroscopic and catalytic studies of selected TITLE:

polyimines protonated with heteropolyacids

Stochmal-Pomarzanska, E.; Quillard, S.; Hasik, M.; AUTHOR(S):

Turek, W.; Pron, A.; Lapkowski, M.; Lefrant, S. Academy of Mining and Metallurgy, Mickiewicza 30,

Krakow, 30059, Pol.

Synthetic Metals (1997), 84(1-3), 427-428 SOURCE:

CODEN: SYMEDZ; ISSN: 0379-6779

Elsevier PUBLISHER: Journal DOCUMENT TYPE: English LANGUAGE:

Arom. poly(azomethines), prepd. from p-phenylenediamine and AB terephthalaldehyde or 2,5-dimethoxyterephthalaldehyde, have been protonated with heteropolyacids (H3PW12O40 and H3PMo12O40) in order to obtain new conjugated polymer-supported catalysts. Detailed Raman and FTIR spectroscopic studies of the undoped and doped polymers have been performed. In isopropanol dehydration and oxidn., these new catalysts exhibit predominantly redox activity producing acetone with high selectivity.

135789-41-2 ΙT

AUTHOR(S):

CORPORATE SOURCE:

RL: CAT (Catalyst use); PRP (Properties); USES (Uses) (spectroscopic and isopropanol dehydration and oxidn.

catalytic studies of polyazomethines protonated with heteropolyacids)

L13 ANSWER 27 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1996:420298 HCAPLUS ACCESSION NUMBER:

125:195563 DOCUMENT NUMBER:

Synthesis and radiation stability of novel TITLE:

thiazolopyrimidines with expected antifungal activity Ghorab, m. M.; Mohamed, Y. A.; Mohamed, S. A.; Ammar,

Y. A.

Dep. Drug Radiation Res., Atomic Energy Authority, CORPORATE SOURCE:

Cairo, Egypt

Phosphorus, Sulfur and Silicon and the Related SOURCE:

Elements (1996), 108(1-4), 249-256 CODEN: PSSLEC; ISSN: 1042-6507

Gordon & Breach PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

A no. of thiazolopyrimidines were prepd. through interaction of 6-methyl-4-(4'-chlorophenyl)-2-thioxo-1,2,3,4-tetrahydropyrimidine-5carboxylic acid Et ester with many reagents. The antifungal activity of all prepd. compds. have been detd. using Dithane M-45 as a std. fungicide. Some compds. showed a high fungicidal activity equiv. to that of the std. towards Aspergillus niger and Aspergillus ochraceus. Also some biol. active compds. were subjected to gamma irradn. and the structures are stable.

120-14-9, 3,4-Dimethoxybenzaldehyde IT

RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. and radiation stability of fungicidal

thiazolopyrimidines)

L13 ANSWER 28 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1995:898953 HCAPLUS ACCESSION NUMBER:

123:284214 DOCUMENT NUMBER:

Collagen-based edible film for food packaging TITLE: Peiffer, Bernd; Keil, Joachim; Maser, Franz INVENTOR(S):

Naturin GmbH und Co., Germany PATENT ASSIGNEE(S):

Ger. Offen., 4 pp. SOURCE: CODEN: GWXXBX

DOCUMENT TYPE:

Patent German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ______ 19931221 A1 19950622 DE 1993-4343670 DE 4343670 US 1995-507242 19951113 19980407 US 5736180 A 19931221 DE 1993-4343670 PRIORITY APPLN. INFO .: WO 1994-EP3395 19941014

A collagen-based edible film contg. a finely divided spice for food packaging is claimed. The film can also contain coloring, aroma and flavoring materials. Paprika powder was mixed at 1% with a collagen suspension and extruded to 20 .mu.m thickness, dried, and reconditioned to be used as a film for coating raw ham.

121-33-5, Vanillin

RL: FFD (Food or feed use); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (collagen-based edible film for food packaging)

L13 ANSWER 29 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1994:482620 HCAPLUS

DOCUMENT NUMBER:

121:82620

TITLE:

Synthesis of vanillin by ultrasonic radiation and

phase transfer catalysis Jiang, Yuren; Xu, Junhuang

AUTHOR(S): CORPORATE SOURCE:

Dep. Chem., Cent. South Univ. Technol., Changsha,

410083, Peop. Rep. China

SOURCE:

Zhongnan Kuangye Xueyuan Xuebao (1994), 25(1), 132-6

CODEN: CKYPDO; ISSN: 0253-4347

DOCUMENT TYPE:

Journal

LANGUAGE:

Chinese

OTHER SOURCE(S):

CASREACT 121:82620

The application of synergistic technol. of ultrasonic radiation and phase transfer catalysis in Reimer-Tiemann reaction was studied for the first time and the effect of factors on reaction was also investigated. By using PEG-6000 as PTC with 2 h of ultrasonic radiation, vanillin was synthesized in 39.2% yield from guaiacol in solid-liq. phase. Not only was yield of vanillin 7.2% higher but the reacting time was also shortened to half in comparison with the best results of the study on the same reaction.

121-33-5P, Vanillin TT

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, from guaiacol by ultrasonic radiation and phase transfer catalysis)

L13 ANSWER 30 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1994:207918 HCAPLUS

DOCUMENT NUMBER:

AUTHOR(S):

120:207918

TITLE:

Comparative molecular field analysis combined with

physicochemical parameters for prediction of

polydimethylsiloxane membrane flux in isopropanol

Liu, Rong; Matheson, Lloyd E.

CORPORATE SOURCE:

Lederle lab., Am. Cyanamid Co., Pearl River, NY,

10965, USA

SOURCE:

Pharm. Res. (1994), 11(2), 257-66 CODEN: PHREEB; ISSN: 0724-8741

DOCUMENT TYPE:

Journal

English LANGUAGE:

Comparative mol. field anal. (CoMFA) combined with various physicochem. AB parameters were used to develop 3-dimensional quant. structuretransportability relationships (3-D QSTR) to predict membrane flux for 108

arom. and heteroarom. compds. through polydimethylsiloxane (PDMS) membranes in iso-Pr alc. (IPA). Sybyl, a comprehensive computational mol. modeling package, was used to analyze the data. Optimized mol. models were selected using mol. modeling techniques. Partial least-squares (PLS) regression combined with cross validation or bootstrapping was used as the statistical method to establish the predictive models. Prediction was good for the steady-state flux using both steric and electrostatic field descriptors combined with a functional group classification technique. Predictive ability was substantially increased in a model using CoMFA descriptors along with log mole fraction soly. for the penetrants in isopropanol, a hydrophobic term, fchex, which is used to est. the partition coeff. between cyclohexane and water, and the addn. of an intramol. hydrogen bonding (1HB) term. The cross validated r2 and the conventional r2 for this model were 0.951 and 0.973, resp. Excellent predictions are demonstrated for the membrane flux of the compds. both inside and outside the data domain.

IT **591-31-1**, m-Anisaldehyde

RL: BIOL (Biological study)

(membrane flux through polydimethylsiloxane in isopropanol of, QSAR of)

L13 ANSWER 31 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:456147 HCAPLUS

DOCUMENT NUMBER: 119:56147

TITLE: Sustained-release implants containing somatotropin

complexes with aromatic aldehydes

INVENTOR(S): Clark, Michael T.; Gyurik, Robert J.; Lewis, Sharon

K.; Murray, Marianne C.; Raymond, Matthew J.

PATENT ASSIGNEE(S): SmithKline Beecham Corp., USA

SOURCE: U.S., 4 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA | PATENT NO. | | | | ND | DATE | | | APPLICATION NO. | | | | | DATE | | | | |
|---------------|------------------|-----|-----|-----|----------|----------|------|----------------|-----------------|------|------|------|-------|------|------|-----|-----|----|
| US | 519842 | 2 | | Α | | 1993 | 0330 | | U | s 19 | 92-8 | 969 | 58 | 1992 | 0611 | | | |
| IL | 105958 | | | A1 | | 19971120 | | | IL 1993-105958 | | | 1993 | 0608 | | | | | |
| ZA | 9304100 | | | A | | 19940610 | | | ZA 1993-4100 | | | 1993 | 0610 | | | | | |
| WO | 9325222 | | A1 | | 19931223 | | | WO 1993-US5659 | | | 59. | 1993 | 0611 | | | | | |
| | W: A | U, | BB, | BG, | BR, | BY, | CA, | CZ, | FI, | HU, | JP, | KP | KR, | KZ, | LK, | MG, | MN, | |
| | М | W, | NO, | NZ, | PL, | RO, | RU, | SD, | SK, | UA, | VN | | | | | | | |
| | RW: A | | | | | | | | | | | | , LU, | MC, | NL, | PT, | SE, | |
| | | | | | | | | | | | | | | TD, | | | | |
| AU | 934535 | 4 | • | A | 1 | 1994 | 0104 | | A | J 19 | 93-4 | 535 | 4 | 1993 | 0611 | | | |
| 7\ [] | 670005 | | | D. | 2 | 1006 | 0001 | | | | | | | | | | | |
| CN | 108580 | 4 | | А | | 1994 | 0427 | | С | N 19 | 93-1 | 0890 | 8C | 1993 | 0611 | | | |
| CN | 108580 106921 | 4 | | В | | 2001 | 0808 | | | | | | | | | | | |
| EP | 644770 | | | A. | 1 | 1995 | 0329 | | E | P 19 | 93-9 | 1533 | 33 | 1993 | 0611 | | | |
| EP | 644770 | | | В | 1 | 1999 | 0107 | | | | | | | | | | | |
| | R: A | Τ, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT. | , LI, | LU, | MC, | NL, | PT, | SE |
| HU | 68917 | | | A. | 2 | 1995 | 0828 | | Н | U 19 | 94-3 | 548 | | 1993 | 0611 | | | |
| JP | 075080 324738 | 03 | | T | 2 | 1995 | 0907 | | J | P 19 | 94-5 | 017 | 68 | 1993 | 0611 | | | |
| JP | 324738 | 0 | | В | 2 | 2002 | 0115 | | | | | | | | | | | |
| CA | 213767 | 7 | | С | | 1998 | 0825 | | С | A 19 | 93-2 | 137 | 677 | 1993 | 0611 | | | |
| AT | 175355 | | | Ε | | 1999 | 0115 | | А | r 19 | 93-9 | 153 | 33 | 1993 | 0611 | | | |
| ES | 212599 175971 | 0 | | T | 3 | 1999 | 0316 | | Ε | S 19 | 93-9 | 153 | 33 | 1993 | 0611 | | | |
| \mathtt{PL} | 175971 | | | В | 1 | 1999 | 0331 | | Р | ւ 19 | 93-3 | 067 | 26 | 1993 | 0611 | | | |
| NO | 940478 | 2 | | Α | | 1994 | 1209 | | N | 0 19 | 94-4 | 782 | | 1994 | 1209 | | | |
| PRIORIT | Y APPLN | . I | NFO | . : | | | | | US 1 | 992~ | 8969 | 58 | A | 1992 | 0611 | | | |
| | | | | | | | | | WO 1 | 993- | US56 | 59 | A | 1993 | 0611 | | | |

OTHER SOURCE(S):

MARPAT 119:56147

Somatotropin (I) complexes with an arom. aldehyde are administered AΒ parenterally to animals to provide a prolonged release of I and improved feed efficiency. Thus, soln. of porcine I was reacted with 2-hydroxy-3-methoxy benzaldehyde (II) at 39.degree. for 6-24 h to obtain I-II complex. Pellets contg. I complex were implanted s.c. in pigs. There was a sustained plasma I level and increase over the control in both the av. daily gain and feed-to-gain ratio.

148696-71-3 148696-72-4 ΙT

RL: BIOL (Biological study)

(sustained-release parenteral pharmaceutical implants contg.)

L13 ANSWER 32 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1991:583275 HCAPLUS

DOCUMENT NUMBER:

115:183275

TITLE:

Preparation of 3-(aminoalkyl)-2-arylthiazolidines as

radioprotectants

INVENTOR(S):

Lyle, Robert E.; McManon, William A.; Mangold, Donald

J.; Swynnerton, Nollie F.

PATENT ASSIGNEE(S):

Southwest Research Institute, USA

SOURCE:

U.S., 5 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE _____ 19910702 US 1989-306922 19890206 Α US 5028715

OTHER SOURCE(S):

MARPAT 115:183275

GΙ

Title compds. [I; R = aminoalkyl; Ar = (halo-, O2N-, alkoxy-, alkyl-, orAB 3,4-alkylenedioxy-substituted) Ph], were prepd. Thus, a mixt. of 3,4-(MeO)2C6H3CHO, H2N(CH2)3NHCH2CH2SPO3H2, and EtOH was stirred with heating for 48 h to give title compd. II. II at 54.3 mg/kg i.p. in mice gave 100% protection against 1000 rad .gamma.-radiation, and showed no drug-related lethality at that dose.

120-14-9, 3,4-Dimethoxybenzaldehyde 591-31-1, ΙT

m-Methoxybenzaldehyde

RL: RCT (Reactant)

(cyclocondensation of, with aminoethylthiophosphate, in prepn. of radioprotectants)

HCAPLUS COPYRIGHT 2002 ACS L13 ANSWER 33 OF 44

ACCESSION NUMBER:

1990:402644 HCAPLUS

DOCUMENT NUMBER:

113:2644

TITLE:

Suppressing effects of vanillin, cinnamaldehyde, and

anisaldehyde on chromosome aberrations induced by

x-rays in mice

AUTHOR(S): Sasaki, Yu F.; Ohta, Toshihiro; Imanishi, Hisako;

Watanabe, Mie; Matsumoto, Kyomu; Kato, Tomoko;

Shirasu, Yasuhiko

CORPORATE SOURCE: Inst. Environ. Toxicol., Kodaira, 187, Japan

SOURCE: Mutat. Res. (1990), 243(4), 299-302

CODEN: MUREAV; ISSN: 0027-5107

DOCUMENT TYPE: Journal LANGUAGE: English

AB X-ray-induced chromosome aberrations were suppressed when vanillin, cinnamaldeyde, or p-anisaldehyde was given orally to mice after x-ray irradn. Chromosome aberrations were monitored by the occurrence of polychromatic erythrocytes with micronuclei in bone marrow cells. The frequency of micronuclei was depressed .apprx.55-60% without toxicity of the test compds. to the bone marrow.

IT 121-33-5

RL: BIOL (Biological study)

(radioprotection by, of chromosome aberrations in bone marrow cells induction by x-rays)

L13 ANSWER 34 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:194543 HCAPLUS

DOCUMENT NUMBER: 112:194543

DOCOMENI NOMBER: 112:134343

TITLE: Suppressing effect of antimutagenic flavorings on chromosome aberrations induced by UV-light or x-rays

in cultured Chinese hamster cells

AUTHOR(S): Sasaki, Yu F.; Imanishi, Hisako; Watanabe, Mie; Ohta,

Toshihiro; Shirasu, Yasuhiko

CORPORATE SOURCE: Inst. Environ. Toxicol., Tokyo, 187, Japan

SOURCE: Mutat. Res. (1990), 229(1), 1-10

CODEN: MUREAV; ISSN: 0027-5107

DOCUMENT TYPE: Journal LANGUAGE: English

Chromosome aberrations induced by UV light or x-rays were suppressed by AB the post-treatment with antimutagenic flavorings, such as anisaldehyde, cinnamaldehyde, coumarin, and vanillin. UV- or x-irradiating surviving cells increased in the presence of each flavoring. X-ray-induced breakage-type and exchange-type chromosome aberrations were suppressed by the vanillin treatment in the G1 phase of the cell cycle and a greater decrease in the no. of x-ray-induced chromosome aberrations during G1 holding was obsd. in the presence of vanillin. Furthermore, a greater decrease in the no. of x-ray-induced DNA single-strand breaks was obsd. in the presence of vanillin. Treatment with vanillin in the G2 phase suppressed UV- and x-ray-induced breakage-type but not exchange-type chromosome aberrations. The suppression of breakage-type aberrations was assumed to be due to a modification of the capability of the post-replicational repair of DNA double-strand breaks. These G1- and G2-dependent anticlastogenic effects were not obsd. in the presence of 2',3'-dideoxythymidine, an inhibitor of DNA polymerase .beta.. Based on these results, the anticlastogenic effect of vanillin was considered to be due to the promotion of the DNA rejoining process in which DNA polymerase .beta. acts.

IT 121-33-5

RL: BIOL (Biological study)

(chromosome aberrations in CHO cells induction by UV ${\bf radiation}$ and x-rays suppression by)

L13 ANSWER 35 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:211071 HCAPLUS

DOCUMENT NUMBER: 108:211071

TITLE: Effect of gamma-irradiation on the uncatalyzed bromate

oscillator

Krishnaratnam, M.; Viswanathan, B.; Ramaswamy, R. AUTHOR(S): CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600 036,

India

SOURCE: J. Radioanal. Nucl. Chem. (1988), 120(2), 353-9

CODEN: JRNCDM; ISSN: 0236-5731

DOCUMENT TYPE: Journal English LANGUAGE:

The characteristics of the uncatalyzed BrO3- oscillator are altered in the presence of .gamma. radiation. These alterations could not be accounted for in terms of substrates acting as scavengers for H atoms. The alteration of the effective activity of the key species in the presence of .gamma.-irradn. can account for the changes obsd. in the oscillation characteristics.

120-14-9, Veratraldehyde IT

RL: RCT (Reactant)

(oscillating reaction of, with bromate, effect of .gamma.-

radiation on)

L13 ANSWER 36 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1986:511139 HCAPLUS ACCESSION NUMBER:

105:111139

DOCUMENT NUMBER: TITLE:

Radioprotective and antitumor activity of some

tetrazole derivatives

Kitaeva, V. G.; Ishmetova, R. I.; Latosh, N. I.;
Malkina, R. M.; Anoshina, G. M. AUTHOR(S):

CORPORATE SOURCE:

Inst. Khim., Sverdlovsk, USSR
Khim.-Farm. Zh. (1986), 20(5), 559-63

SOURCE: CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal LANGUAGE: Russian

Nine N1(N2), C5-substituted tetrazoles were prepd. and their toxicities, radioprotective activities, and antitumor activities were detd. The derivs., which had LD50 values of 850-2000 mg/kg, were less toxic than the parent 5-substituted tetrazoles. The majority of the compds. showed no radioprotective activity, as detd. by the survival rates of mice exposed to LDs of radiation for 30 days. However, 1-(3,5-dimethyl-4hydroxybenzyl)-5-(4-pyridyl)tetrazole was an efficient radioprotectant; a survival rate of 46.5% was obtained with this compd. With the exception of 2-(3,5-dimethyl-4-hydroxybenzyl)-5-(3-pyridyl) tetrazole, which inhibited the growth of sarcoma 37 by 65%, the compds. possessed no significant antitumor activities, and, in some cases, actually stimulated tumor growth.

104065-29-4 104065-31-8 ΤT

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (toxicity and other properties of, antitumor and radioprotective activities in relation to)

L13 ANSWER 37 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1986:125733 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 104:125733

Antimutagenic effects of 5-fluorouracil and TITLE:

5-fluorodeoxyuridine on UV-induced mutagenesis in

Escherichia coli

Ohta, T.; Watanabe, M.; Tsukamoto, R.; Shirasu, Y.; Kada, T. AUTHOR(S):

Inst. Environ. Toxicol., Tokyo, 187, Japan CORPORATE SOURCE:

Mutat. Res. (1986), 173(1), 19-24 SOURCE:

CODEN: MUREAV; ISSN: 0027-5107

DOCUMENT TYPE: Journal LANGUAGE: English

Inhibitors of UV induction of the SOS function were screened. A log phase culture of E. coli PQ37 (sulA::lacZ, rfa, uvrA, Phoc) was irradiated with UV and then immediately subjected to culture for 2 h in a liq. LB medium

contg. each test compd. Expression of the SOS gene (sulA) was assayed by monitoring the levels of .beta.-galactosidase. To examine the inhibitory effects of test compds. on protein synthesis, the levels of the constitutive alk. phosphatase were assayed in parallel. The total no. of compds. tested was 233, including 44 food and feed additives, 23 naturally occurring compds. and derivs., 21 antibiotics, 61 pesticides, 33 inorgs., and 51 other chems. As a result, 5-fluorouracil and 5-fluorodeoxyuridine were found to inhibit considerably the UV induction of the SOS gene without any inhibition of protein synthesis. Mutagenesis induced by UV irradn. was depressed by the addn. of either compd. at nontoxic concns.

121-33-5 IT

RL: BIOL (Biological study)

(mutation of Escherichia coli induction by UV radiation in response to)

L13 ANSWER 38 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1985:505370 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 103:105370

Poly[4,4'[2,5-bis(4-oxy-3-TITLE:

methoxybenzylidene)cyclopentanone]phenylphosphonate]

and related photosensitive polycondensates. {Poly[oxy(phenylphosphonoyl)oxy(2-methoxy-1,4-

phenylene) methylidyne (2-oxo-1, 3-

cyclopentanediylidene) methylidyne (3-methoxy-1,4-

phenylene)]}

Borden, D. G. AUTHOR(S):

Res. Lab., Eastman Kodak Co., Rochester, NY, USA CORPORATE SOURCE:

Macromol. Synth. (1985), 9, 5-10 SOURCE: CODEN: MASYAO; ISSN: 0076-2091

DOCUMENT TYPE: Journal LANGUAGE: English

2,5-Bis(4-hydroxy-3-methoxybenzylidene)cyclopentanone (I) [7249-34-5] was prepd. by treating vanillin [121-33-5] with cyclopentanone [120-92-3] in the presence of BF3.OEt2 and polymd. with PhP(O)Cl2 or azelaoyl chloride to give a photocurable polyphosphonate (II) [97876-83-0] and polyester (III) [97876-84-1], resp. I was also polymd. with tetrachlorobisphenol A and sebacoyl chloride to give a photocurable terpolymer [66509-29-3] having intrinsic viscosity 1.09 dL/g (in CH2ClCHCl2) and UV absorption max. at 363 nm. III had intrinsic viscosity 0.66 dL/g, av. mol. wt. 58,684, polydispersity 12.54, UV absorption max. at 375 nm, and the same degree of crosslinking as II with approx. one-tenth the exposure to UV radiation.

L13 ANSWER 39 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1982:529328 HCAPLUS ACCESSION NUMBER:

97:129328 DOCUMENT NUMBER:

Organic compounds in kraft bleaching spent liquors. V. TITLE:

Photodegradation of red-pine chlorinated oxylignin

Shimada, Kinji AUTHOR(S):

Div. For. Prod. Chem., For. For. Prod. Res. Inst., Ibaraki, 305, Japan CORPORATE SOURCE:

Mokuzai Gakkaishi (1982), 28(6), 376-82 SOURCE:

CODEN: MKZGA7; ISSN: 0021-4795

DOCUMENT TYPE: Journal English LANGUAGE:

The degrdn. of chlorinated oxylignin (I) in NaOH soln. with UV light in AΒ the presence of O increased with increasing pH and resulted in the formation of low-mol.-wt. compds. with accompanying dechlorination, demethoxylation, and cleavage of the arom. rings and in the redn. of COD of I solns. Upon UV irradn. in the presence of N, no redn. of COD and cleavage of arom. rings were obsd., but Cl and methoxy groups were removed, the color of the I soln. became dark, and the I was polymd. slightly. In the methoxy group-contg. chlorinated model compds. for

lignin, the cleavage of C-Cl bonds in the presence of N promoted a demethoxylation reaction.

18268-76-3 19463-48-0 82668-20-0 IT

RL: PRP (Properties)

(degrdn. of, by UV radiation, as model compd. for chlorinated oxylignin)

L13 ANSWER 40 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1979:7842 HCAPLUS ACCESSION NUMBER:

90:7842 DOCUMENT NUMBER:

Effect of cobalt-60 .gamma.-radiation on a sprucewood TITLE:

lignocarbohydrate complex, coniferin, and

glucovanillin

Sergeeva, V. N.; Kreicberga, Z.; Ekabsome, M.; AUTHOR(S):

Rajavee, E.; Muiznieks, A. Inst. Khim. Drev, Riga, USSR Khim. Drev. (1978), (5), 58-67

SOURCE: CODEN: KHDRDQ

Journal DOCUMENT TYPE: Russian LANGUAGE:

[9005-53-2]-carbohydrate bonds in sprucewood Lignin (I)

lignin-carbohydrate complexes and phenylglucoside bonds in glucovanillin [494-08-6] and coniferin (III) [531-29-3] are resistant to .gamma.-ray irradn. from a 60Co source at doses of 5-50 Mrads. irradn. of II and III with a dose of 50 Mrads does not affect the resistance of phenylglucoside bond to acid hydrolysis. The protective effect of I with respect to carbohydrates in sprucewood lignin-carbohydrate complexes is obsd. during irradn. with doses of 50

Mrads, but the protective effect of I decreases with increasing irradn. dose. The irradn. of lignin-carbohydrate complexes with doses >50 Mrads causes condensation.

494-08-6 ΙT

CORPORATE SOURCE:

RL: PRP (Properties)

(radiation resistance of)

L13 ANSWER 41 OF 44 HCAPLUS COPYRIGHT 2002 ACS

1977:431632 HCAPLUS ACCESSION NUMBER:

87:31632 DOCUMENT NUMBER:

New nonlinear organic materials for generation of TITLE:

second harmonics of neodymium laser radiation

Davydov, B. L.; Kotovshchikov, S. G.; Nefedov, V. A. AUTHOR(S):

Inst. Radioelektron., Moscow, USSR CORPORATE SOURCE:

Kvantovaya Elektron. (Moscow) (1977), 4(1), 214-20 SOURCE:

CODEN: KVEKA3

Journal DOCUMENT TYPE: LANGUAGE: Russian

Results are presented of studies into the Nd laser 2nd harmonic generation in 36 org. cryst. powders. Possible approaches are discussed to the search and synthesis of nonlinear org. materials and the field of their

application.

ΙT 121-33-5

RL: PRP (Properties)

(laser radiation second harmonic generation in)

L13 ANSWER 42 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1975:508714 HCAPLUS ACCESSION NUMBER:

83:108714 DOCUMENT NUMBER:

Use of a hypothetical receptor-site model to predict TITLE:

novel pituitary hormone releasing and inhibiting

agents

Smythe, G. A.; Lazarus, L. AUTHOR(S):

Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney, CORPORATE SOURCE:

Aust.

Hypothal. Hypophysiotropic Horm., Proc. Conf. (1973), SOURCE: Meeting Date 1972, 189-97. Editor(s): Gual, Carlos; Rosemberg, Eugenia. Excerpta Med.: Amsterdam, Neth. CODEN: 30PKAE DOCUMENT TYPE: Conference LANGUAGE: English A hypothetical hypothalamic receptor-site model able to bind mol. models AB of compds. which can affect the catechol amine-dependent release of pituitary hormones was proposed. The hypothesis enabled the prediction of compds. which antagonize or enhance brain catechol amine action and thus adenohypophysial secretion. Effects of various compds. arrived at from mol. model-receptor site model considerations were tested in rats by measuring serum and pituitary levels of prolactin and growth hormone after administration of the test compds. Acute administration of L-DOPA [59-92-7], 3-iodo-L-tyrosine [70-78-0], guaiacol [90-05-1], and 3,4-dimethoxyphenylacetamide [5663-56-9] suppressed serum prolactin [9002-62-4] levels. Vanillin [121-33-5] and 3,4-dimethoxy-L-phenylalanine [32161-30-1] blocked the prolactin-suppressing effect of L-DOPA. Vanillin also decreased the effect of L-DOPA on growth hormone [9002-72-6] secretion. 3,4-Dimethoxy-L-phenylalanine given chronically caused pituitary gland atrophy and decreased growth hormone and prolactin content. 3-Iodo-L-tyrosine and guaiacol given chronically decreased pituitary prolactin levels but increased pituitary wt. Compds. predicted from the model may find a role in treatment of hypothalamic disease states. L13 ANSWER 43 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1975:499482 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 83:99482 Model for the reaction of lignin with urea TITLE: Malyutina, G. I.; Nitryushkina, O. I. AUTHOR(S): USSR CORPORATE SOURCE: Sb. Stud. Nauchno-Issled. Rab., Arkhang. Lesotekh. SOURCE: Inst. (1974), 9, 87-90 CODEN: SSLKA3 Journal DOCUMENT TYPE: Russian LANGUAGE: The reaction of vanillin (I) [121-33-5] with urea (II) [57-13-6] at 150-180.degree. (conditions of the particle board bonding with the urea-formaldehyde resins) gave a product contg. no CO groups, fewer mole% of the phenolic OH groups than I, and more secondary OH groups than it was expected from the I and II reaction. 4-HO, 3-MeOC6H3CH: NCONH2, could be formed in reaction of I with II. L13 ANSWER 44 OF 44 HCAPLUS COPYRIGHT 2002 ACS 1972:479472 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 77:79472 Nuclear magnetic resonance (NMR) and fragrance TITLE: materials Lemberg, Seymour AUTHOR(S): Coeurarome, Inc., Elizabeth, N. J., USA CORPORATE SOURCE: Amer. Cosmet. Perfum. (1972), 87(6), 38-41 SOURCE: CODEN: ACPFB5 DOCUMENT TYPE: Journal English LANGUAGE: NMR is used to detect interaction of fragrances with the system in which AB they are being used, esp. proteins. Proteins were utilized in a D2O soln. to broaden selectively the NMR signal of various fragrances (vanillin, phenethyl alc., hydroxycitronellal, coumarin, geranyl acetate, and linalool). Nonaq. media could also be used. H2O could not be used,

IT 121-33-5

RL: RCT (Reactant)

because of conflicting signals.

(reactions of, with collagen proteins, NMR of)

=> select hit rn 113 1-44 E38 THROUGH E64 ASSIGNED => fil req FILE 'REGISTRY' ENTERED AT 21:33:36 ON 16 AUG 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS) 15 AUG 2002 HIGHEST RN 444046-42-8 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 15 AUG 2002 HIGHEST RN 444046-42-8 TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002 Please note that search-term pricing does apply when conducting SmartSELECT searches. Crossover limits have been increased. See HELP CROSSOVER for details. Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf => => s e38-e641 121-33-5/BI (121-33-5/RN)1 120-14-9/BI (120-14-9/RN)1 591-31-1/BI (591-31-1/RN)1 134-96-3/BI (134-96-3/RN)1 19463-48-0/BI (19463-48-0/RN) 1 7311-34-4/BI (7311-34-4/RN)1 93-02-7/BI (93-02-7/RN)1 104065-29-4/BI (104065-29-4/RN) 1 104065-31-8/BI (104065-31-8/RN) 1 106852-80-6/BI (106852-80-6/RN) 1 135789-41-2/BI (135789-41-2/RN) 1 148-53-8/BI (148-53-8/RN)1 148696-71-3/BI (148696-71-3/RN) 1 148696-72-4/BI (148696-72-4/RN) 1 17028-61-4/BI

(17028-61-4/RN)

(18268-76-3/RN)

1 18268-76-3/BI

1 20357-25-9/BI (20357-25-9/RN) 1 2426-87-1/BI (2426-87-1/RN) 1 2973-76-4/BI (2973-76-4/RN) 1 334016-42-1/BI (334016-42-1/RN) 1 3934-87-0/BI (3934-87-0/RN)1 494-08-6/BI (494-08-6/RN)1 53055-05-3/BI (53055-05-3/RN) 1 5438-36-8/BI (5438-36-8/RN) 1 6635-20-7/BI (6635-20-7/RN) 1 71295-21-1/BI (71295-21-1/RN) 1 82668-20-0/BI (82668-20-0/RN)

L14

27 (121-33-5/BI OR 120-14-9/BI OR 591-31-1/BI OR 134-96-3/BI OR 19463-48-0/BI OR 7311-34-4/BI OR 93-02-7/BI OR 104065-29-4/BI OR 104065-31-8/BI OR 106852-80-6/BI OR 135789-41-2/BI OR 148-53-8/BI OR 148696-71-3/BI OR 148696-72-4/BI OR 17028-61-4/BI OR 18268-76-3/BI OR 20357-25-9/BI OR 2426-87-1/BI OR 2973-76-4/BI OR 334016-42-1/BI OR 3934-87-0/BI OR 494-08-6/BI OR 53055-05-3/B I OR 5438-36-8/BI OR 6635-20-7/BI OR 71295-21-1/BI OR 82668-20-0/BI)

=> s 114 and 12 L15 27 L14 AND L2

=> d ide can 115 1-27

L15 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 334016-42-1 REGISTRY

CN Benzaldehyde, 3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-4,5-dimethoxy- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H30 O4 Si

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:295620

```
ANSWER 2 OF 27 REGISTRY COPYRIGHT 2002 ACS
L15
     148696-72-4 REGISTRY
RN
CN
     Somatotropin (swine), compd. with 4-hydroxy-3-methoxybenzaldehyde (9CI)
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Benzaldehyde, 4-hydroxy-3-methoxy-, compd. with somatotropin (swine) (9CI)
CN
     Benzaldehyde, 4-hydroxy-3-methoxy-, compd. with somatotropin (pig)
CN
     Somatotropin (pig), compd. with 4-hydroxy-3-methoxybenzaldehyde
CN
MF
     C8 H8 O3 . x Unspecified
SR
LC
     STN Files:
                  CA, CAPLUS, USPATFULL
     CM
          1
         126467-48-9
     CRN
     CMF
          Unspecified
     CCI
          MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN
         121-33-5
     CMF C8 H8 O3
      OMe
HO
           CHO
               1 REFERENCES IN FILE CA (1967 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
REFERENCE
            1: 119:56147
L15 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2002 ACS
     148696-71-3 REGISTRY
     Somatotropin (swine), compd. with 2-hydroxy-3-methoxybenzaldehyde (9CI)
CN
     (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Benzaldehyde, 2-hydroxy-3-methoxy-, compd. with somatotropin (pig)
CN
CN
     Benzaldehyde, 2-hydroxy-3-methoxy-, compd. with somatotropin (swine) (9CI)
     Somatotropin (pig), compd. with 2-hydroxy-3-methoxybenzaldehyde
CN
MF
     C8 H8 O3 . x Unspecified
SR
LC
     STN Files:
                 CA, CAPLUS, USPATFULL
     CM
          1
     CRN
         126467-48-9
     CMF
          Unspecified
     CCI
         MAN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     CM
          2
     CRN 148-53-8
```

CMF C8 H8 O3

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:56147

L15 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 135789-41-2 REGISTRY

CN 1,4-Benzenedicarboxaldehyde, 2,5-dimethoxy-, polymer with

1,4-benzenediamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

1,4-Benzenediamine, polymer with 2,5-dimethoxy-1,4-benzenedicarboxaldehyde
(9CI)

OTHER NAMES:

CN 2,5-Dimethoxyterephthalaldehyde-1,4-phenylenediamine copolymer

MF (C10 H10 O4 . C6 H8 N2)x

CI PMS, COM

PCT Polyazomethine, Polyazomethine formed

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

CRN 7310-97-6 CMF C10 H10 O4

CM 2

CRN 106-50-3 CMF C6 H8 N2

- 12 REFERENCES IN FILE CA (1967 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:321578

REFERENCE 2: 133:287090

REFERENCE 3: 132:222139

REFERENCE 4: 131:299966

REFERENCE 5: 131:200329

REFERENCE 6: 130:325588

REFERENCE 7: 126:279275

REFERENCE 8: 122:82220

REFERENCE 9: 121:69064

REFERENCE 10: 120:108296

L15 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 106852-80-6 REGISTRY

CN Benzaldehyde, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3,5-dimethoxy-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4-tert-Butyldimethylsilyloxy-3,5-dimethoxybenzaldehyde

FS 3D CONCORD

MF C15 H24 O4 Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1967 TO DATE)
12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:355345

REFERENCE 2: 132:260679

REFERENCE 3: 131:13121

REFERENCE 4: 129:122487

REFERENCE 5: 123:198518

REFERENCE 6: 122:106200

REFERENCE 7: 121:230460

REFERENCE 8: 117:111194

116:235461 REFERENCE 9:

REFERENCE 10: 115:28876

ANSWER 6 OF 27 REGISTRY COPYRIGHT 2002 ACS L15

RN 104065-31-8 REGISTRY

Benzaldehyde, 3-[[5-(3,4-dimethoxyphenyl)-1H-tetrazol-1-yl]methyl]-4-CN hydroxy-5-methoxy-, mixt. with 3-[[5-(3,4-dimethoxyphenyl)-2H-tetrazol-2yl]methyl]-4-hydroxy-5-methoxybenzaldehyde (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

Benzaldehyde, 3-[[5-(3,4-dimethoxyphenyl)-2H-tetrazol-2-yl]methyl]-4-CN hydroxy-5-methoxy-, mixt. contg. (9CI)

C18 H18 N4 O5 . C18 H18 N4 O5 MF

CI MXS

SR CA

CA, CAPLUS, TOXCENTER LC STN Files:

> 1 CM

104065-30-7 CRN C18 H18 N4 O5 CMF

2 CM

CRN 92595-41-0 C18 H18 N4 O5 CMF

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:111139

ANSWER 7 OF 27 REGISTRY COPYRIGHT 2002 ACS L15

104065-29-4 REGISTRY RN

Benzaldehyde, 4-hydroxy-3-methoxy-5-[(5-phenyl-1H-tetrazol-1-yl)methyl]-, CN mixt. with 4-hydroxy-3-methoxy-5-[(5-phenyl-2H-tetrazol-2yl)methyl]benzaldehyde (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

Benzaldehyde, 4-hydroxy-3-methoxy-5-[(5-phenyl-2H-tetrazol-2-yl)methyl]-, mixt. contg. (9CI)

MF C16 H14 N4 O3 . C16 H14 N4 O3

CI MXS

SR CA

LC STN Files: CA, CAPLUS, RTECS*, TOXCENTER (*File contains numerically searchable property data)

CM 1

CRN 104065-28-3 CMF C16 H14 N4 O3

CM 2

CRN 92595-37-4 CMF C16 H14 N4 O3

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:111139

L15 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **82668-20-0** REGISTRY

CN Benzaldehyde, 2-chloro-4-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Chloro-3-methoxy-4-hydroxybenzaldehyde

CN 2-Chlorovanillin

FS 3D CONCORD

MF C8 H7 C1 O3

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, PIRA, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1967 TO DATE) 15 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:39584

REFERENCE 2: 126:131298

REFERENCE 3: 124:333120

REFERENCE 4: 124:117084

REFERENCE 5: 123:59209

REFERENCE 6: 122:84027

REFERENCE 7: 122:31501

REFERENCE 8: 121:212175

REFERENCE 9: 119:256162

REFERENCE 10: 119:233521

L15 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **71295-21-1** REGISTRY

CN Benzaldehyde, 5-bromo-2,3-dimethoxy- (9CI) (CA INDEX NAME)

OTHER NAMES: .

CN 2,3-Dimethoxy-5-bromobenzaldehyde

FS 3D CONCORD

MF C9 H9 Br O3

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,

TOXCENTER

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1967 TO DATE)

19 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:295620

REFERENCE 2: 133:2077

REFERENCE 3: 129:149216

REFERENCE 4: 127:188165

REFERENCE 5: 126:89204

REFERENCE 6: 123:55767

REFERENCE 7: 122:9778

REFERENCE 8: 121:74036

REFERENCE 9: 120:217198

REFERENCE 10: 115:135854

L15 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **53055-05-3** REGISTRY

CN Benzaldehyde, 3-methoxy-2-nitro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde, 2-nitro- (6CI)

OTHER NAMES:

CN 2-Nitro-3-methoxybenzaldehyde

CN 3-Methoxy-2-nitrobenzaldehyde

FS 3D CONCORD

MF C8 H7 N O4

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

55 REFERENCES IN FILE CA (1967 TO DATE)

55 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:87840

REFERENCE 2: 136:309755

REFERENCE 3: 136:294858

REFERENCE 4: 136:216720

REFERENCE 5: 136:167250

REFERENCE 6: 135:303856

REFERENCE 7: 135:272879

REFERENCE 8: 135:210601

REFERENCE 9: 135:166827

REFERENCE 10: 135:122416

L15 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **20357-25-9** REGISTRY

CN Benzaldehyde, 4,5-dimethoxy-2-nitro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

Veratraldehyde, 6-nitro- (7CI, 8CI) CN OTHER NAMES: CN 2-Nitro-4,5-dimethoxybenzaldehyde CN 3,4-Dimethoxy-6-nitrobenzaldehyde 4,5-Dimethoxy-2-nitrobenzaldehyde CN CN 4-O-Methyl-6-nitrovanillin CN 6-Nitroveratraldehyde FS 3D CONCORD MF C9 H9 N O5 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL (*File contains numerically searchable property data) Other Sources: EINECS** (**Enter CHEMLIST File for up-to-date regulatory information) NO₂ MeO MeO CHO **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT** 173 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 173 REFERENCES IN FILE CAPLUS (1967 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967) REFERENCE 1: 137:87840 REFERENCE 136:263410 REFERENCE 3: 136:37618 135:304144 REFERENCE 4: REFERENCE 5: 135:303672 REFERENCE 135:137157 REFERENCE 7: 135:107300 REFERENCE 8: 135:107264 REFERENCE 9: 135:92639 REFERENCE 10: 134:266308 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2002 ACS 19463-48-0 REGISTRY RN Benzaldehyde, 3-chloro-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME) CNOTHER CA INDEX NAMES: Vanillin, 5-chloro- (6CI, 7CI, 8CI) OTHER NAMES: 3-Chloro-4-hydroxy-5-methoxybenzaldehyde CN CN 5-Chlorovanillin CN 5-Monochlorovanillin FS 3D CONCORD C8 H7 C1 O3

AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,

MF

T_iC

STN Files:

CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, HODOC*, IFICDB, IFIPAT, IFIUDB, PIRA, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

72 REFERENCES IN FILE CA (1967 TO DATE)

72 REFERENCES IN FILE CAPLUS (1967 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 132:246357

REFERENCE 2: 132:171816

REFERENCE 3: 132:83155

REFERENCE 4: 130:110061

REFERENCE 5: 130:12153

REFERENCE 6: 128:296015

REFERENCE 7: 128:150419

REFERENCE 8: 127:331393

REFERENCE 9: 126:131298

REFERENCE 10: 126:69933

L15 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **18268-76-3** REGISTRY

CN Benzaldehyde, 2-chloro-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin, 6-chloro- (8CI)

OTHER NAMES:

CN 6-Chlorovanillin

CN 6-Monochlorovanillin

FS 3D CONCORD

MF C8 H7 C1 O3

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMLIST, DETHERM*, PIRA, TOXCENTER, ULIDAT, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

74 REFERENCES IN FILE CA (1967 TO DATE)
75 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:73803

REFERENCE 2: 135:199960

REFERENCE 3: 135:94110

REFERENCE 4: 133:63103

REFERENCE 5: 132:335984

REFERENCE 6: 132:167838

REFERENCE 7: 132:83155

REFERENCE 8: 132:39916

REFERENCE 9: 131:327168

REFERENCE 10: 129:132360

L15 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **17028-61-4** REGISTRY

CN Benzaldehyde, 2-hydroxy-3-methoxy-5-nitro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde, 2-hydroxy-5-nitro- (8CI)

CN o-Vanillin, 5-nitro- (6CI)

OTHER NAMES:

CN 2-Hydroxy-3-methoxy-5-nitrobenzaldehyde

CN 3-Methoxy-5-nitrosalicylaldehyde

CN 5-Nitro-o-vanillin

FS 3D CONCORD

MF C8 H7 N O5

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

98 REFERENCES IN FILE CA (1967 TO DATE)
98 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:69829

REFERENCE 2: 136:20032

REFERENCE 3: 135:137351

REFERENCE 4: 135:137235

REFERENCE 5: 135:76829

REFERENCE 6: 134:326221

REFERENCE 7: 133:79004

REFERENCE 8: 132:243869

REFERENCE 9: 132:51138

REFERENCE 10: 131:331415

L15 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **7311-34-4** REGISTRY

CN Benzaldehyde, 3,5-dimethoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,5-Dimethoxybenzaldehyde

FS 3D CONCORD

MF C9 H10 O3

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

429 REFERENCES IN FILE CA (1967 TO DATE)

431 REFERENCES IN FILE CAPLUS (1967 TO DATE)

10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:87838

REFERENCE 2: 137:46881

REFERENCE 3: 137:19546

REFERENCE 4: 136:385696

REFERENCE 5: 136:369539

REFERENCE 6: 136:309755

REFERENCE 7: 136:294748

REFERENCE 8: 136:263165

REFERENCE 136:247571 9: REFERENCE 10: 136:247388 L15 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2002 ACS RN 6635-20-7 REGISTRY Benzaldehyde, 4-hydroxy-3-methoxy-5-nitro- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Vanillin, 5-nitro- (6CI, 7CI, 8CI) OTHER NAMES: 3-Methoxy-4-hydroxy-5-nitrobenzaldehyde CN 3-Nitro-4-hydroxy-5-methoxybenzaldehyde CN 4-Hydroxy-3-methoxy-5-nitrobenzaldehyde CN 4-Hydroxy-5-methoxy-3-nitrobenzaldehyde CN 5-Nitro-4-hydroxy-3-methoxybenzaldehyde CN 5-Nitrovanillin CN 3D CONCORD FS C8 H7 N O5 MF N Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, PIRA, SPECINFO, TOXCENTER, STN Files: LC USPATFULL (*File contains numerically searchable property data) Other Sources: EINECS**

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 97 REFERENCES IN FILE CA (1967 TO DATE)
- 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

(**Enter CHEMLIST File for up-to-date regulatory information)

- 97 REFERENCES IN FILE CAPLUS (1967 TO DATE)
- 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:78726

REFERENCE 2: 136:325295

REFERENCE 3: 136:183764

REFERENCE 4: 136:69829

REFERENCE 5: 136:63117

REFERENCE 6: 135:303782

REFERENCE 7: 135:303672

REFERENCE 8: 134:42002

REFERENCE 9: 134:29596

REFERENCE 10: 133:350025

L15 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2002 ACS

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5438-36-8 REGISTRY
RN
     Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy- (9CI)
                                                       (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Vanillin, 5-iodo- (7CI)
CN
OTHER NAMES:
     3-Iodo-5-methoxy-4-hydroxybenzaldehyde
CN
     4-Hydroxy-3-iodo-5-methoxybenzaldehyde
CN
     4-Hydroxy-5-iodo-3-methoxybenzaldehyde
CN
     5-Iodo-3-methoxy-4-hydroxybenzaldehyde
CN
     5-Iodovanillin
CN
     3D CONCORD
FS
     C8 H7 I O3
MF
                  AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
     STN Files:
LC
       CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB,
       SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
                      EINECS**, NDSL**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
      OMe
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             100 REFERENCES IN FILE CA (1967 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             100 REFERENCES IN FILE CAPLUS (1967 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1: 137:93682
REFERENCE
                136:327192
                136:102329
REFERENCE
            3:
                136:53764
REFERENCE
            4:
                135:344501
            5:
REFERENCE
                135:272910
             6:
REFERENCE
            7:
                 135:272895
REFERENCE
                 135:19663
REFERENCE
             8:
                 135:5558
REFERENCE
             9:
REFERENCE 10:
                 134:127813
     ANSWER 18 OF 27 REGISTRY COPYRIGHT 2002 ACS
L15
      3934-87-0 REGISTRY
                                                    (CA INDEX NAME)
      Benzaldehyde, 3,4-dihydroxy-5-methoxy- (9CI)
 OTHER CA INDEX NAMES:
      Protocatechualdehyde, 5-methoxy- (7CI, 8CI)
 OTHER NAMES:
```

3,4-Dihydroxy-5-methoxybenzaldehyde

CN 4,5-Dihydroxy-3-methoxybenzaldehyde

CN 5-Hydroxyvanillin

FS 3D CONCORD

MF C8 H8 O4

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1967 TO DATE)

58 REFERENCES IN FILE CAPLUS (1967 TO DATE)

7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:212615

REFERENCE 2: 136:74276

REFERENCE 3: 136:58508

REFERENCE 4: 135:357851

REFERENCE 5: 134:315873

REFERENCE 6: 134:141770

REFERENCE 7: 133:266641

REFERENCE 8: 132:321792

REFERENCE 9: 132:37133

REFERENCE 10: 129:27796

L15 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 2973-76-4 REGISTRY

CN Benzaldehyde, 3-bromo-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin, 5-bromo- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-Bromo-4-hydroxy-5-methoxybenzaldehyde

CN 5-Bromo-3-methoxy-4-hydroxybenzaldehyde

CN 5-Bromo-4-hydroxy-3-anisaldehyde

CN 5-Bromo-4-hydroxy-3-methoxybenzaldehyde

CN 5-Bromovanillin

CN 6-Bromo-4-formyl-2-methoxyphenol

FS 3D CONCORD

MF C8 H7 Br O3

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB,

IFIPAT, IFIUDB, PIRA, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

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Other Sources:

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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184 REFERENCES IN FILE CA (1967 TO DATE)
184 REFERENCES IN FILE CAPLUS (1967 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

137:104945 REFERENCE 1: REFERENCE 2: 137:42773 3: 136:243022 REFERENCE REFERENCE 4: 136:134645 136:49485 REFERENCE 5: 6: 135:318303 REFERENCE 135:314602 REFERENCE 7: 135:272910 8: REFERENCE 135:137701 REFERENCE 9: 10: 135:137383 REFERENCE L15 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2002 ACS RN 2426-87-1 REGISTRY Benzaldehyde, 3-methoxy-4-(phenylmethoxy)- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: Benzaldehyde, 4-(benzyloxy)-3-methoxy- (6CI, 7CI, 8CI) OTHER NAMES: 3-Methoxy-4-(benzyloxy)benzaldehyde CN4-(Benzyloxy)-3-methoxybenzaldehyde CN 4-O-Benzylvanillin CN CN Benzylvanillin O-Benzylvanillin CN Vanillin benzyl ether CN 3D CONCORD FS C15 H14 O3 MF AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, STN Files: LC CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

(**Enter CHEMLIST File for up-to-date regulatory information)

EINECS**

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

274 REFERENCES IN FILE CA (1967 TO DATE)
275 REFERENCES IN FILE CAPLUS (1967 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:78723

REFERENCE 2: 137:63372

REFERENCE 3: 137:46778

REFERENCE 4: 137:20309

REFERENCE 5: 136:216740

REFERENCE 6: 136:200176

REFERENCE 7: 136:85826

REFERENCE 8: 136:69651

REFERENCE 9: 135:344364

REFERENCE 10: 135:288633

L15 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **591-31-1** REGISTRY

CN Benzaldehyde, 3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde (8CI)

OTHER NAMES:

CN 3-Methoxybenzaldehyde

CN m-Methoxybenzaldehyde

FS 3D CONCORD

MF C8 H8 O2

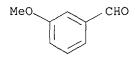
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, NAPRALERT, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1746 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1749 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:109122

REFERENCE 2: 137:109096

REFERENCE 3: 137:109087

REFERENCE 4: 137:87840

REFERENCE 5: 137:79026

REFERENCE 6: 137:78825

REFERENCE 7: 137:78783

REFERENCE 8: 137:78731

REFERENCE 9: 137:78646

REFERENCE 10: 137:78532

L15 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **494-08-6** REGISTRY

CN Benzaldehyde, 4-(.beta.-D-glucopyranosyloxy)-3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Avenein (6CI, 7CI, 8CI)

OTHER NAMES:

CN Glucovanillin

CN Vanillin .beta.-D-glucopyranoside

CN Vanillin glucoside

CN Vanilloside

FS STEREOSEARCH

DR 6049-95-2

MF C14 H18 O8

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IPA, MRCK*, PROMT, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

38 REFERENCES IN FILE CA (1967 TO DATE)
38 REFERENCES IN FILE CAPLUS (1967 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

1: 137:29708 REFERENCE REFERENCE 2: 136:299446 136:68980 REFERENCE 3: 4: 135:343352 REFERENCE 134:237711 REFERENCE 5: 133:321157 REFERENCE 6: REFERENCE 7: 133:345 132:298448 REFERENCE 8: 129:330591 9: REFERENCE REFERENCE 10: 128:235007 L15 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2002 ACS 148-53-8 REGISTRY RN Benzaldehyde, 2-hydroxy-3-methoxy- (9CI) (CA INDEX NAME) CN OTHER CA INDEX NAMES: m-Anisaldehyde, 2-hydroxy- (8CI) CNo-Vanillin (6CI) CNOTHER NAMES: 2-Hydroxy-3-methoxybenzaldehyde CN 2-Hydroxy-m-anisaldehyde CN 2-Vanillin CN 3-Methoxy-2-hydroxybenzaldehyde CN 3-Methoxysalicylaldehyde CN 6-Formyl-2-methoxyphenol CN CN 6-Formylquaiacol CN NC 005 3D CONCORD FS C8 H8 O3 MF CI COM AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, STN Files: LC CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data) DSL**, EINECS**, TSCA** Other Sources: (**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1138 REFERENCES IN FILE CA (1967 TO DATE)

```
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            1139 REFERENCES IN FILE CAPLUS (1967 TO DATE)
              33 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1:
               137:118510
            2:
                137:104945
REFERENCE
            3:
                137:102959
REFERENCE
                137:88473
REFERENCE
            4:
                137:78835
REFERENCE
            5:
                137:74803
REFERENCE
            6:
                137:47151
            7:
REFERENCE
                137:47117
REFERENCE
            8:
            9:
                137:42773
REFERENCE
REFERENCE 10:
               137:40855
L15 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2002 ACS
     134-96-3 REGISTRY
RN
     Benzaldehyde, 4-hydroxy-3,5-dimethoxy- (8CI, 9CI) (CA INDEX NAME)
CN
OTHER NAMES:
     2,6-Dimethoxy-4-formylphenol
CN
     3,5-Dimethoxy-4-hydroxybenzaldehyde
CN
     4-Formyl-2, 6-dimethoxyphenol
CN
     4-Hydroxy-3,5-dimethoxybenzaldehyde
CN
CN
     Cedar aldehyde
     Gallaldehyde 3,5-dimethyl ether
CN
CN
     Syringaldehyde
     Syringic aldehyde
CN
     3D CONCORD
FS
     C9 H10 O4
MF
     COM
CI
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
     STN Files:
LC
       BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
       CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT,
       IFIUDB, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*,
       SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPATFULL
          (*File contains numerically searchable property data)
                       DSL**, EINECS**, TSCA**
     Other Sources:
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1522 REFERENCES IN FILE CA (1967 TO DATE)
16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1525 REFERENCES IN FILE CAPLUS (1967 TO DATE)

```
28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
                 137:113694
REFERENCE
              2:
                   137:108518
REFERENCE
              3:
                   137:104945
REFERENCE
              4:
                   137:98305
REFERENCE
                   137:95374
REFERENCE
              6:
                   137:93012
REFERENCE
              7:
                  137:90941
REFERENCE
              8:
                  137:90076
REFERENCE
              9:
                   137:83362
REFERENCE 10: 137:64726
L15 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2002 ACS
      121-33-5 REGISTRY
      Benzaldehyde, 4-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
      Vanillin (8CI)
OTHER NAMES:
CN
      2-Methoxy-4-formylphenol
      3-Methoxy-4-hydroxybenzaldehyde
CN
      4-Formyl-2-methoxyphenol
CN
CN
      4-Hydroxy-3-methoxybenzaldehyde
CN
      4-Hydroxy-5-methoxybenzaldehyde
      4-Hydroxy-m-anisaldehyde
CN
CN
      H 0264
CN
      Lioxin
CN
      m-Methoxy-p-hydroxybenzaldehyde
CN
      p-Hydroxy-m-methoxybenzaldehyde
CN
      p-Vanillin
CN
      Rhovanil
      Vanillaldehyde
CN
      Vanillic aldehyde
FS
      3D CONCORD
DR
      8014-42-4, 52447-63-9
      C8 H8 O3
MF
CI
      COM
      STN Files:
LC
                     AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
        BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA,
        PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,
        USPAT2, USPATFULL
           (*File contains numerically searchable property data)
                        DSL**, EINECS**, TSCA**
      Other Sources:
```

(**Enter CHEMLIST File for up-to-date regulatory information)

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

6998 REFERENCES IN FILE CA (1967 TO
138 REFERENCES TO NON-SPECIFIC DERI
7008 REFERENCES IN FILE CAPLUS (1967
13 REFERENCES IN FILE CAOLD (PRIOR
```

```
6998 REFERENCES IN FILE CA (1967 TO DATE)
             138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            7008 REFERENCES IN FILE CAPLUS (1967 TO DATE)
              13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1:
               137:114553
            2:
               137:114518
REFERENCE
            3:
                137:114199
REFERENCE
REFERENCE
            4:
                137:113694
                137:112698
REFERENCE
            5:
                137:110692
REFERENCE
            6:
            7:
               137:109935
REFERENCE
REFERENCE
            8:
                137:109514
            9:
               137:109106
REFERENCE
          10: 137:109087
REFERENCE
L15 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2002 ACS
     120-14-9 REGISTRY
     Benzaldehyde, 3,4-dimethoxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Veratraldehyde (7CI, 8CI)
OTHER NAMES:
     3,4-Dimethoxybenzaldehyde
CN
     3,4-Dimethoxybenzenecarbonal
CN
CN
     4-O-Methylvanillin
CN
     Methylvanillin
     Protocatechualdehyde dimethyl ether
CN
     Protocatechuic aldehyde dimethyl ether
CN
     Vanillin methyl ether
CN
CN
     Veratral
     Veratric aldehyde
CN
     Veratrum aldehyde
CN
     Veratryl aldehyde
CN
FS
     3D CONCORD
     C9 H10 O3
MF
CI
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
LC
     STN Files:
       CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU,
       DRUGU, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
       MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, RTECS*, SPECINFO, SYNTHLINE,
       TOXCENTER, ULIDAT, USPAT2, USPATFULL
```

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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3036 REFERENCES IN FILE CA (1967 TO DATE)

12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3041 REFERENCES IN FILE CAPLUS (1967 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:109154

REFERENCE 2: 137:109139

REFERENCE 3: 137:109106

REFERENCE 4: 137:109096

REFERENCE 5: 137:93770

REFERENCE 6: 137:93605

REFERENCE 7: 137:88408

REFERENCE 8: 137:79101

REFERENCE 9: 137:78532

REFERENCE 10: 137:47168

L15 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 93-02-7 REGISTRY

CN Benzaldehyde, 2,5-dimethoxy- (7CI, 8CI, 9CI) (CA INDEX NAME) OTHER NAMES:

CN 2,5-Dimethoxybenzaldehyde

FS 3D CONCORD

MF C9 H10 O3

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

544 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

545 REFERENCES IN FILE CAPLUS (1967 TO DATE)

9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:109096

REFERENCE 2: 137:20309

REFERENCE 3: 137:20278

REFERENCE 4: 136:379474

REFERENCE 5: 136:340450

REFERENCE 6: 136:310048

REFERENCE 7: 136:309755

REFERENCE 8: 136:294790

REFERENCE 9: 136:294720

REFERENCE 10: 136:279185